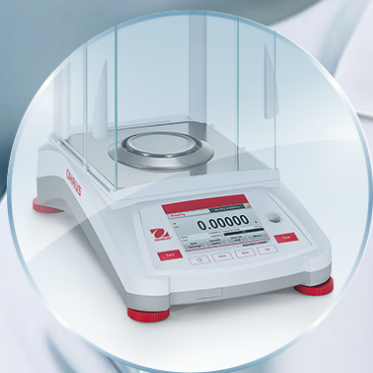




PRODUCT CATALOG



Featuring
**ALL-NEW
PRODUCTS**
for **2025**

PRODUCTS AT WORK

*Balances and Scales, Moisture Analyzers, Laboratory Equipment,
Water Analysis Instruments, Calibration Weights*

Ingeniously Practical

www.ohaus.com

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Introducing the
All-New OHAUS
Moisture Analyzers
Featuring the
Industry-Leading
Carbon Fiber
Heating Element
See pages 46-48



The OHAUS Advantage

For more than a century, the OHAUS name has been synonymous with precision and reliability. Our high-quality balances and scales, laboratory equipment and analytical instruments are designed to meet the evolving needs of a growing range of industries. In addition to supporting the need for precision in every setting, our Ingeniously Practical methodology—demonstrated in all of our products and services—provides tangible benefits that improve accuracy and quality for our customers.

At OHAUS, we have an unwavering dedication to four principles that guide the way we conduct business and support our customers: trust, agility, ingenuity and commitment. That's the OHAUS Advantage, and it's the promise we make to our customers every day.

TRUST

More Than A Century Of Precision & Reliability

Trust is a cornerstone of our relationship with our customers. With more than a century of expertise, we have become a trusted resource for those who rely on precision weighing products and life science equipment. As customer needs have evolved over the decades, our ability to adapt to change and offer the latest practical innovations has contributed to this enduring trust.

Today, we continue to deliver the same level of trusted quality and reliability that our customers have come to expect. While remaining grounded in our deep American roots established by Gustav and Karl Ohaus in 1907, we have expanded into 20 countries across six continents, creating a strong global network positioned to meet customer needs around the world.

AGILITY

Always Evolving

Over the years, OHAUS has brought the quality and value that define our weighing products to a wider range of specialized products, including analytical instruments and laboratory equipment for various industries. Our ability to be agile supports our commitment to embrace and adapt new technologies that benefit our customers.

Through our global network of office locations, representatives, and dealers, we stay on top of industry trends around the world and are positioned to quickly adapt to market changes and customer needs. Together with research/development and advanced manufacturing processes, this knowledge enables us to design and craft every OHAUS product to meet and exceed the demands, trends and expectations of our markets.

INGENUITY

Ingeniously Practical In Meeting Customer Needs

Whether you're looking for traditional weighing products or specialized laboratory or analytical equipment, all OHAUS products are built with ingenuity while also remaining practical in meeting customer needs. In fact, we call our expanded portfolio of products "Ingeniously Practical." To us, this means they offer both pinpoint accuracy and ease of use, and they feature the highest quality while being affordable and durable.

All OHAUS products are rigorously tested to meet national and international safety, quality, and accuracy standards. As an ISO 9001-2015 manufacturer, we maintain our commitment to quality through certifications, listings and ratings such as NTEP, OIML, IP, NEMA and NSF, ensuring legal and operational compliance. Our products are further backed by our extended warranties and ongoing technical support.

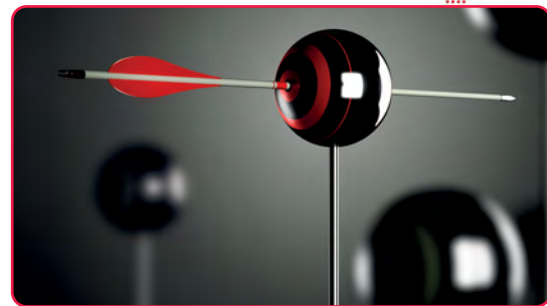
OHAUS products also feature superior mechanical overload protection to protect the weighing cells, while IP and NEMA ratings demonstrate further protection from harsh environments. These protective attributes prolong the life of our equipment.

COMMITMENT

Supporting Our Customers Around The Globe

At OHAUS, we are committed to providing comprehensive customer support, from technical advice and marketing insight to the logistical capacity to meet specific requests and turnaround times. We complement these offerings with onsite training, webinars, video demonstrations and a monthly newsletter.

We believe this commitment means developing a relationship that benefits our customers for the long-term. Our responsive customer service and technical support representatives go the extra mile to provide value-added solutions in a timely manner. With offices in 20 countries, you can receive personalized service and support from anywhere in the world.

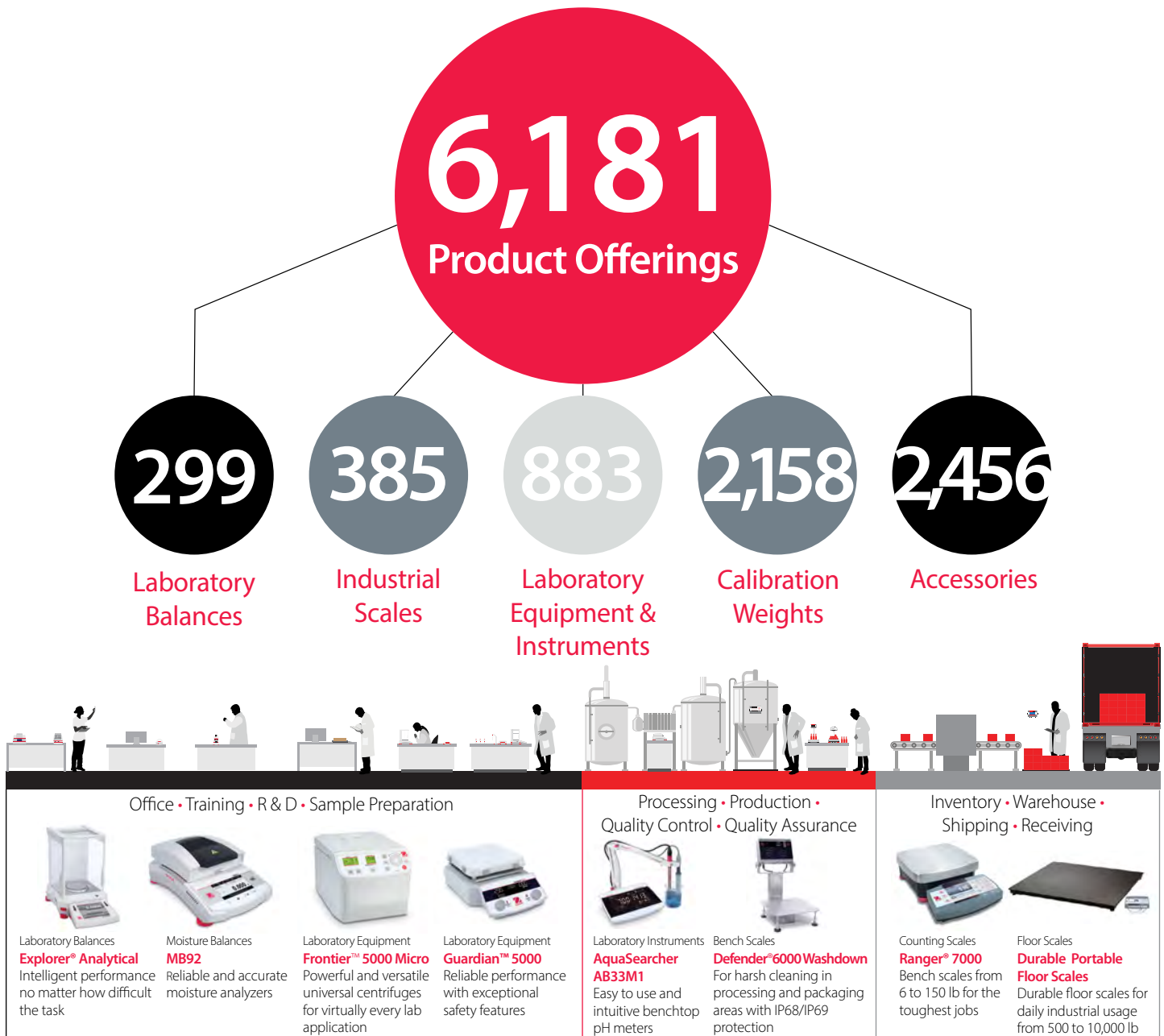


Products at Work

The OHAUS product range is specifically designed to help maximize productivity, across every surface of the workspace. From the office to the warehouse, our Ingeniously Practical portfolio is packed with products made with your customers' needs in mind. Our industry-leading line of scales and balances offer the accuracy, speed, and peace of mind your customers need to Weigh It with ease, while our ever-growing line of laboratory instruments products allows them to Test It with the confidence they need. Introduced in 2017, the OHAUS line of laboratory equipment rounds out the ability to Do More in the lab, offering products ranging from mixers and shakers to clamps and supports—and everything in between.

No matter what your customers' needs are, from research and development to fulfilment and receiving, you can depend on OHAUS for everything you need to let your customers' operations thrive.

Don't stop at just measurement—Do More.



NOTES

Laboratory Weighing



From our powerhouse flagship Explorer balance to our rugged and practical PR Series, OHAUS has a wide variety of semi-micro, analytical, precision, high-capacity, and moisture balances that are ideal for use in almost every area of your laboratory—and beyond.



		Semi-Micro Balances			Analytical Balances				Precision Balances			
		Explorer Semi-Micro	Adventurer Semi-Micro	Pioneer Semi-Micro	Explorer	Adventurer	Pioneer	PR Series	Explorer	Adventurer	Pioneer	PR Series
Weighing Capacity Range		52 g - 220 g	82 g - 220 g	82 g - 220 g	120 g - 320 g	120 g - 320 g	80 g - 220 g	64 g - 220 g	220 g - 35,000 g	220 g - 12,000 g	160 g - 12,000 g	320 g - 6,200 g
Readability Range		0.01 mg	0.01 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.001 g - 0.1 g	0.001 g - 0.1 g	0.001 g - 0.1 g	0.001 g - 0.1 g
APPLICATIONS	Weighing	●	●	●	●	●	●	●	●	●	●	●
	Parts Counting	●	●	●	●	●	●	●	●	●	●	●
	Percent Weighing	●	●	●	●	●	●	●	●	●	●	●
	Check Weighing	●	●	●	●	●	●	●	●	●	●	●
	Density Determination	●	●	●	●	●	●	●	●	●	●	●
	Dynamic / Animal Weighing	●	●	●	●	●	●	●	●	●	●	●
	Filling	●	●	●	●	●	●	●	●	●	●	●
	Totalization	●	●	●	●	●	●	●	●	●	●	●
	Formulation	●	●	●	●	●	●	●	●	●	●	●
	Differential Weighing	●	●	●	●	●	●	●	●	●	●	●
	Ingredient Costing	●	●	●	●	●	●	●	●	●	●	●
	SQC	●	●	●	●	●	●	●	●	●	●	●
	Statistics	●	●	●	●	●	●	●	●	●	●	●
	Fill Weight Variation	●	●	●	●	●	●	●	●	●	●	●
	Pipette Calibration	●	●	●	●	●	●	●	●*	●	●	●
	Mole Weighing	●	●	●	●	●	●	●	●	●	●	●
	Batch Printing	●	●	●	●	●	●	●	●	●	●	●
	Display Hold	●	●*	●	●*	●*	●	●	●	●*	●	●
	Gross / Net / Tare	●	●	●	●	●	●	●	●	●	●	●
FEATURES	Control Interface	5.7" Touchscreen	4.3" Touchscreen / Mechanical Buttons	Backlit LCD / Mechanical Buttons	5.7" Touchscreen	4.3" Touchscreen / Mechanical Buttons	Backlit LCD / Mechanical Buttons	Backlit LCD / Mechanical Buttons	5.7" Touchscreen	4.3" Touchscreen / Mechanical Buttons	Backlit LCD / Mechanical Buttons	Backlit LCD / Mechanical Buttons
	Custom Units	●	●	●	●	●	●	●	●	●	●	●
	Multi-Language	●	●	●	●	●	●	●	●	●	●	●
	Battery Power	●	●	●	●	●	●	●	●*	●	●	●
	External Calibration Models	●	●	●	●	●	●	●	●	●	●	●
	Internal Calibration Models	●	●*	●	●	●*	●*	●*	●*	●*	●*	●*
	AutoCal Models	●	●*	●	●	●*	●	●	●*	●*	●	●
	Draftshield	●	●	●	●	●	●	●	●*	●*	●*	●*
	Automatic Door	●*	●	●	●*	●	●	●	●	●	●	●
	Built-In Ionizer	●*	●	●	●	●	●	●	●	●	●	●
	Touchless Sensors	●	●	●	●	●	●	●	●	●	●	●
	GLP / GMP / RTC	●	●	●	●	●	●	●	●	●	●	●
	Password Protection	●	●	●	●	●	●	●	●	●	●	●
	User Management	●	●	●	●	●	●	●	●	●	●	●
	Weigh-Below Hook	●	●	●	●	●	●	●	●	●	●	●
COMMUNICATION PORTS	NTEP / Measurement Canada	●	●*	●	●*	●*	●	●	●*	●*	●	●*
	RS-232	●	●	●	●	●	●	●	●	●	●	●
	USB Device	●	●	●	●	●	●	○	●	●	●	○
	USB Host	●	●	●	●	●	●	○	●	●	●	○
	Ethernet	○	○	○	○	○	○	○	○	○	○	○
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		Portable Balances					
		Scout STX	Scout SPX	Scout SJX	Navigator	Compass CX	Compass CR
Weighing Capacity Range		120 g - 8200 g	120 g - 8200 g	64 g - 8,200 g	120 g - 20,000 g	220 g - 5,200 g	220 g - 5,200 g
Readability Range		0.001 g - 1 g	0.001 g - 1 g	0.001 g - 1 g	0.001 g - 1 g	0.1 g - 1 g	0.1 g - 1 g
APPLICATIONS	Weighing	●	●	●	●	●	●
	Parts Counting	●	●	●	●		
	Percent Weighing	●	●	●	●		
	Check Weighing	●	●	●	●		
	Density Determination	●		●			
	Dynamic / Animal Weighing	●					
	Totalization	●	●	●			
	Mole Weighing	●					
	Display Hold	●	●	●		●	
	Gross / Net / Tare	●	●	●			
FEATURES	Control Interface	4.3" Touchscreen / Mechanical Buttons	Backlit LCD / Mechanical Buttons	Backlit LCD / Mechanical Buttons	Backlit LCD / Mechanical Buttons	Backlit LCD / Mechanical Buttons	LCD / Mechanical Buttons
	Custom Units	●	●				
	Multi-Language	●					
	Battery Power	●	●	●	●	●	●
	External Calibration	●	●	●	●	●	●
	Draftshield	●*	●*	●*	●*		
	Touchless Sensors				●		
	GLP / GMP / RTC	●					
	Weigh-Below Hook	●	●	●	○		
	NTEP / Measurement Canada			●			
COMMUNICATION PORTS	RS-232	○	○	○	○		
	USB Device	○	○	○	○		
	USB Host	○	○	○			
	Ethernet	○	○	○	○		
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● Standard ●* Model Dependent ○ Optional



NEW CAL-PAK WEIGHT SETS

Find the weights to
calibrate your
balance!

Explorer

Adventurer

Pioneer

PR Series

Recommended Cal-Pak Weight Sets Troemner ASTM Class 1 ISO/IEC 17025 Accredited Certificate Included

Balance Capacity (g)	Cal-Pak Item #	Cal-Pak Description	Cal-Pak List Price (USD)
52 / 120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
120 / 220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
320	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
420	30391790	CalPak ASTM 200g-2g CL1 Accrd TR	\$671
620	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
1100	80859551	CalPak ASTM 1kg/50g CL1 Accrd TR	\$977
2200	80859552	CalPak ASTM 2kg/100g CL1 Accrd TR	\$1,412
4200	30391783	CalPak ASTM 2kg-20g CL1 Accrd TR	\$1,932
6200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
10200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
82 / 120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
102 / 220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
82	30391795	CalPak ASTM 50g-2g CL1 Accrd TR	\$566
120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
320	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
420	30391790	CalPak ASTM 200g-2g CL1 Accrd TR	\$671
520	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
620	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
820	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
1520	80859551	CalPak ASTM 1kg/50g CL1 Accrd TR	\$977
2200	80859552	CalPak ASTM 2kg/100g CL1 Accrd TR	\$1,412
4200	30391783	CalPak ASTM 2kg-20g CL1 Accrd TR	\$1,932
5200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
6200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
8200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
82 / 220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
82	30391795	CalPak ASTM 50g-2g CL1 Accrd TR	\$566
120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
160	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
320	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
620	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
1600	80859551	CalPak ASTM 1kg/50g CL1 Accrd TR	\$977
2200	80859552	CalPak ASTM 2kg/100g CL1 Accrd TR	\$1,412
3200	80859552	CalPak ASTM 2kg/100g CL1 Accrd TR	\$1,412
4200	30391783	CalPak ASTM 2kg-20g CL1 Accrd TR	\$1,932
6200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
62	30391795	CalPak ASTM 50g-2g CL1 Accrd TR	\$566
120	80859548	CalPak ASTM 100g/5g CL1 Accrd TR	\$541
220	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
320	80859549	CalPak ASTM 200g/10g CL1 Accrd TR	\$567
520	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
820	80859550	CalPak ASTM 500g/20g CL1 Accrd TR	\$741
1600	80859551	CalPak ASTM 1kg/50g CL1 Accrd TR	\$977
2200	80859552	CalPak ASTM 2kg/100g CL1 Accrd TR	\$1,412
4200	30391783	CalPak ASTM 2kg-20g CL1 Accrd TR	\$1,932
5200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013
6200	80859553	CalPak ASTM 5kg/200g CL1 Accrd TR	\$2,013

Class 1 Cal-Paks by Troemner avoids the need to purchase an entire weight set. Cal-Paks contain a small weight perfect for repeatability testing, and a large weight suited for testing accuracy and performing a span calibration. Useful for most industries including pharmaceutical applications.

EXPLORER™ SEMI-MICRO

Flagship Balances from OHAUS

Display

Full-color VGA graphic display (5.7 in. diagonal), 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Communication

Easy access communication ports including 2 units of USB port and RS232 and an optional fourth port of either RS232 or Ethernet. GLP/GMP Data Output with Real Time Clock. Data Transfer Function.

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door as option models

Design Features

AutoCal™ fully-automatic internal calibration system, fast stabilization time, four touchless sensors, built-in ionizer with automatic door models, up to 14 operating languages, OIML models available, SAVE to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby.

Operation

AC Adapter (Included)



**Recommended
CAL-PAK
WEIGHT SET**
for your laboratory
balance!
See page 10

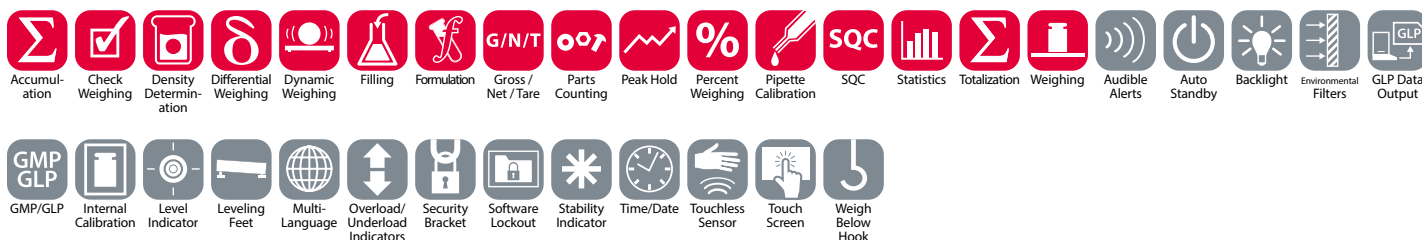
Explorer's weighing cells precision-machined from a solid metal block, together with AutoCal™ provides exceptional accuracy and durability suitable for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, optional built-in ionizer & automatic doors, and a frameless draftshield make Explorer balances easy & convenient to use.

Model	Auto Door	Built-in Ionizer	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
EX125	-	•	•	120 g	0.01 mg	3.14 in (80 mm)	30139511	9786
EX125D	-	•	•	52 g/120 g	0.01 mg; 0.1 mg	3.14 in (80 mm)	30139510	7851
EX225D	-	•	•	120 g/220 g	0.01 mg; 0.1 mg	3.14 in (80 mm)	30139512	10013
EX225D/AD	•	•	•	120 g/220 g	0.01 mg; 0.1 mg	3.14 in (80 mm)	30139513	10345
EX225/AD	•	•	•	220 g	0.01 mg	3.14 in (80 mm)	30139514	12703

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
Printer, Impact, SF40A, AM	30064203	1409	Cable ST103-EX MB PA TxxP	80252581	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Density Kit, Solids	80253384	1106
Cable, RS422, 9m, EX EX-HiCap	30078078	218	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Static Ionizer, ION-100A, AM	30130302	2471	Cable RS232 IBM 9P Male-to-Female	80500525	275
Pipette Adjustment Kit, EX Semi-Micro	30252145	2054	Anti-Theft Device Lab Balance	80850043	330
Interface Kit, RS232-USB	30304101	207	Software, Winwedge	80850080	759
Gridding Pan, EX5	30369673	225	Ethernet Kit, EX EX-HiCap	83021082	275
Auxiliary display AD7-RS	30472064	104	Cable Extension RS422 2m EX EX-HiCap	83021083	155
Paper Roll, Thermal, STP103	80251931	33	In-Use-Cover, Terminal, EX	83033633	122
Paper Roll, CBM910	80251932	30	Sinker, Glass, Liquid, Density Kit	83034024	929
Ink Ribbon, CBM910	80251933	81			



EXPLORER™ ANALYTICAL

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately) . GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors & flip/sliding top door, illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, 4 touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC adapter (included)



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

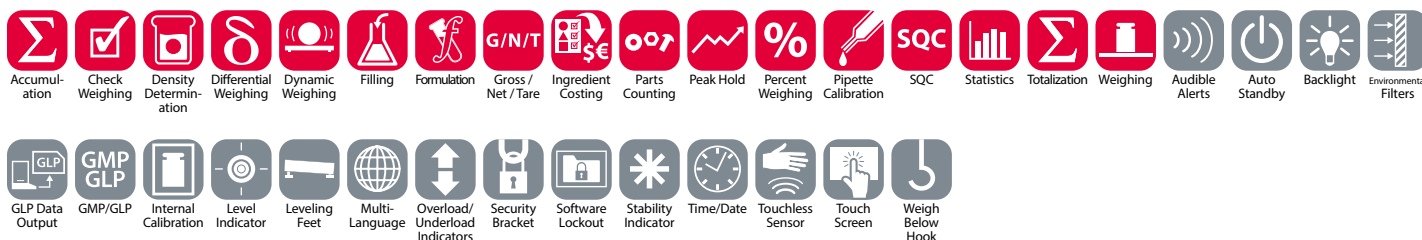
Features such as four-level user management with password protection and a non-editable system log plus a high level of configuration make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, automatic doors, and a frameless draftshield make Explorer analytical balances easy and convenient to use.

Model	Auto Door	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
EX124/AD	•	•	120 g	0.1 mg	3.5 in (90 mm)	30061976	6034
EX124	-	•	120 g	0.1 mg	3.5 in (90 mm)	83021331	5830
EX224/AD	•	•	220 g	0.1 mg	3.5 in (90 mm)	30061977	6696
EX224	-	•	220 g	0.1 mg	3.5 in (90 mm)	83021332	6477
EX324/AD	•	•	320 g	0.1 mg	3.5 in (90 mm)	30061978	7863
EX324	-	•	320 g	0.1 mg	3.5 in (90 mm)	83021335	7606

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A , SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Cable, RS422, 9m, EX EX-HiCap	30078078	218
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106

Accessories	Item Number	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device, SP PA AV NV	80850000	128
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Ethernet Kit, EX EX-HiCap	83021082	275
Cable Extension RS422 2m EX EX-HiCap	83021083	155
Column Kit, EX	83021102	238
In-Use-Cover, Terminal, EX	83033633	122
Sinker, Glass, Liquid, Density Kit	83034024	929



EXPLORER™ ANALYTICAL NTEP

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors & flip/sliding top door, illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, 4 touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC adapter (included)



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

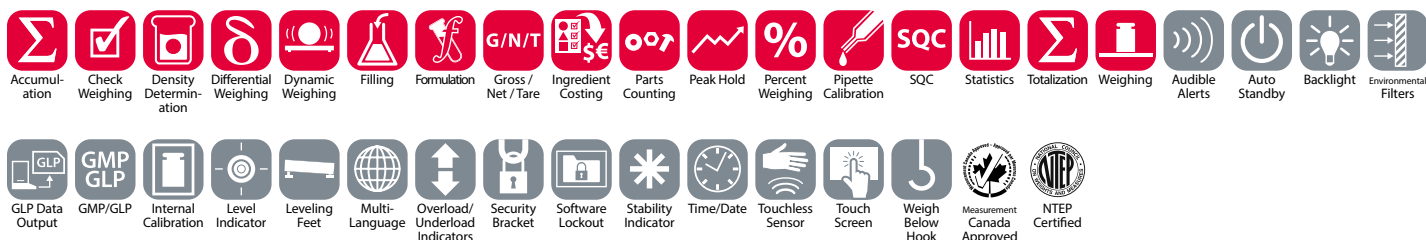
Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, automatic doors, and a frameless draftshield make Explorer analytical balances easy and convenient to use.

Model	Auto Door	AutoCal™	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
EX224N/AD	•	•	220 g	0.1 mg	1 mg	I	3.5 in (90 mm)	30061998	7981
EX224N	-	•	220 g	0.1 mg	1 mg	I	3.5 in (90 mm)	83021334	7121
EX324N/AD	•	•	320 g	0.1 mg	1 mg	I	3.5 in (90 mm)	30061999	8707
EX324N	-	•	320 g	0.1 mg	1 mg	I	3.5 in (90 mm)	83021337	8336

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Cable, RS422, 9m, EX EX-HiCap	30078078	218
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106

Accessories	Item Number	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device, SP PA AV NV	80850000	128
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Ethernet Kit, EX EX-HiCap	83021082	275
Cable Extension RS422 2m EX EX-HiCap	83021083	155
Column Kit, EX	83021102	238
In-Use-Cover, Terminal, EX	83033633	122
Sinker, Glass, Liquid, Density Kit	83034024	929



EXPLORER™ PRECISION

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately) . GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors & flip/sliding top door (1 mg models), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, 4 touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC adapter (included)



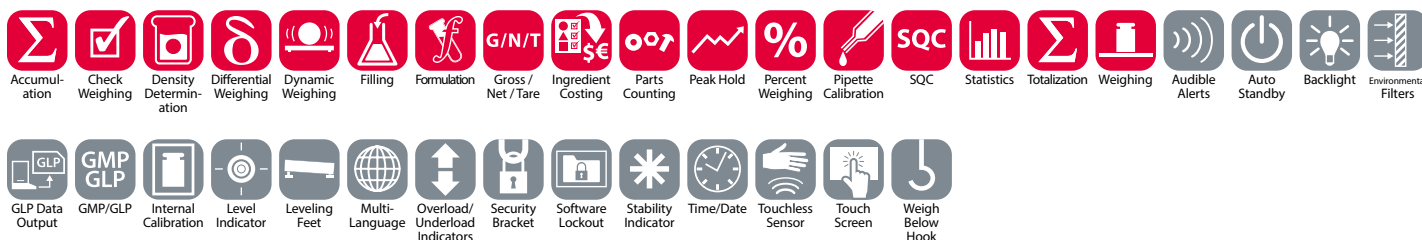
Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection and a non-editable system log plus a high level of configuration make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, and a frameless draftshield make Explorer precision balances easy and convenient to use.

Model	AutoCal™	Draftshield	Capacity	Readability	Pan Size	Item Number	List Price (USD)
EX223/E	-	•	220 g	1 mg	5.1 in (130 mm)	30061979	3283
EX223	•	•	220 g	1 mg	5.1 in (130 mm)	83021341	3826
EX423/E	-	•	420 g	1 mg	5.1 in (130 mm)	30061980	3969
EX423	•	•	420 g	1 mg	5.1 in (130 mm)	83021342	4474
EX623	•	•	620 g	1 mg	5.1 in (130 mm)	83021348	5467
EX1103	•	•	1,100 g	1 mg	5.1 in (130 mm)	83021350	6408
EX2202/E	-	-	2,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	30061981	3582
EX2202	•	-	2,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	83021356	4138
EX4202/E	-	-	4,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	30061982	4176
EX4202	•	-	4,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	83021357	4757
EX6202/E	-	-	6,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	30061983	4781
EX6202	•	-	6,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	83021360	5398
EX10202	•	-	10,200 g	0.01 g	7.5 in x 8 in (190 mm x 200 mm)	83021362	6403
EX6201/E	-	-	6,200 g	0.1 g	7.5 in x 8 in (190 mm x 200 mm)	30061984	3838
EX6201	•	-	6,200 g	0.1 g	7.5 in x 8 in (190 mm x 200 mm)	83021361	4489
EX10201	•	-	10,200 g	0.1 g	7.5 in x 8 in (190 mm x 200 mm)	83021365	4917

Accessories on next page



EXPLORER™ PRECISION ACCESSORIES

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Cable, RS422, 9m, EX EX-HiCap	30078078	218
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106

Accessories	Item Number	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device, SP PA AV NV	80850000	128
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Ethernet Kit, EX EX-HiCap	83021082	275
Cable Extension RS422 2m EX EX-HiCap	83021083	155
Draft Shield Kit, EX	83021084	1334
Column Kit, EX	83021102	238
In-Use-Cover, Terminal, EX	83033633	122
Sinker, Glass, Liquid, Density Kit	83034024	929

EXPLORER™ PRECISION NTEP

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately) . GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors & flip/sliding top door (1 mg models), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, 4 touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC adapter (included)



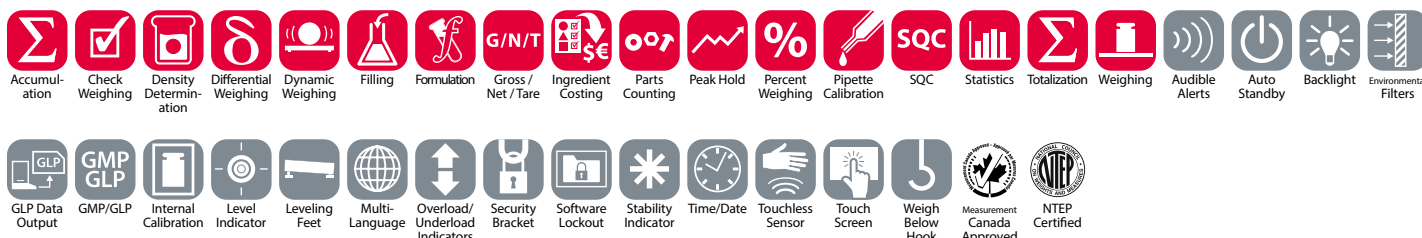
Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection and a non-editable system log plus a high level of configuration make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, and a frameless draftshield make Explorer precision balances easy and convenient to use.

Model	AutoCal™	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
EX223N/E	-	•	220 g	1mg	0.01 g	II	5.1 in (130 mm)	30553844	3564
EX223N	•	•	220 g	1mg	0.01 g	II	5.1 in (130 mm)	30553843	4094
EX423N/E	-	•	420 g	1mg	0.01 g	II	5.1 in (130 mm)	30553845	4244
EX423N	•	•	420 g	1 mg	0.01 g	II	5.1 in (130 mm)	83021344	4986
EX1103N	•	•	1,100 g	1 mg	0.01 g	I	5.1 in (130 mm)	83021352	6995
EX2202N/E	-	-	2,200 g	0.01 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553846	3851
EX4202N/E	-	-	4,200 g	0.01 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553847	4438
EX4202N	•	-	4,200 g	0.01 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	83021359	5223
EX6202N/E	-	-	6,200 g	0.01 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553889	5060
EX6202N	•	-	6,200 g	0.01 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553888	5672
EX10202N	•	-	10,200 g	0.01 g	0.1 g	I	7.5 in x 8 in (190 mm x 200 mm)	83021364	6995
EX6201N/E	-	-	6,200 g	0.1 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553891	4112
EX6201N	•	-	6,200 g	0.1 g	0.1 g	II	7.5 in x 8 in (190 mm x 200 mm)	30553890	4757
EX10201N	•	-	10,200 g	0.1 g	0.1 g	I	7.5 in x 8 in (190 mm x 200 mm)	83021367	5404

Accessories continued on next page



EXPLORER™ PRECISION NTEP ACCESSORIES

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Cable, RS422, 9m, EX EX-HiCap	30078078	218
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106

Accessories	Item Number	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device, SP PA AV NV	80850000	128
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Ethernet Kit, EX EX-HiCap	83021082	275
Cable Extension RS422 2m EX EX-HiCap	83021083	155
Draft Shield Kit, EX	83021084	1334
Column Kit, EX	83021102	238
In-Use-Cover, Terminal, EX	83033633	122
Sinker, Glass, Liquid, Density Kit	83034024	929

EXPLORER™ PRECISION HIGH CAPACITY

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately) . GLP/GMP data output with real-time clock.

Construction

Modular design, IP54 metal base, Die-cast top housing, stainless steel pan, up-front level indicator, integral weigh below hook, calibration lock, two touchless sensors, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC Adapter (included) or rechargeable battery (accessory sold separately)



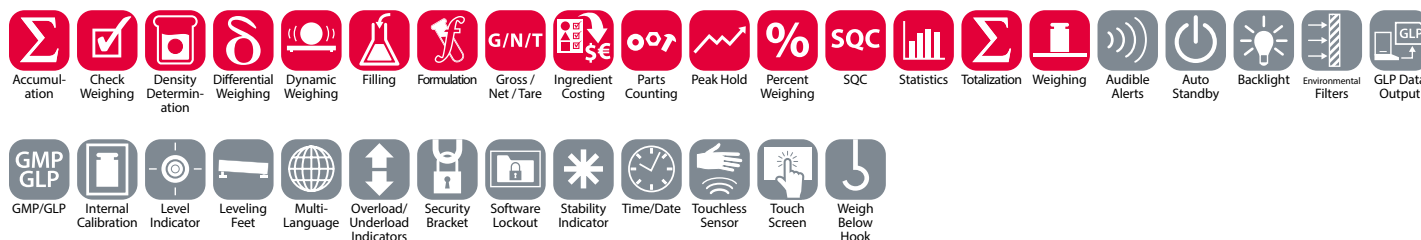
Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

2-D shock protection and IP54 base enclosure protect the balance from damage, while the AutoCal™ automatic internal calibration system ensures performance.

A detachable terminal with a large color touchscreen and programmable IR sensors make Explorer High-Capacity balances easy and convenient to use.

Model	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
EX12001	•	12,000 g	0.1 g	14.8 in x 12.2 in (377 mm x 311 mm)	30057099	5436
EX24001	•	24,000 g	0.1 g	14.8 in x 12.2 in (377 mm x 311 mm)	30057100	6621
EX35001	•	35,000 g	0.1 g	14.8 in x 12.2 in (377 mm x 311 mm)	30057101	7776

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
BATTERY, pack, Li-ion, R, 14.8V, 2600mAh	30041295	549	Cable ST103-EX MB PA TxxP	80252581	275
Wheel Kit, Set(4), EX-HiCap	30041470	238	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Printer, Impact, SF40A, AM	30064203	1409	Cable RS232 IBM 9P Male-to-Female	80500525	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Anti-Theft Device Lab Balance	80850043	330
Cable, RS422, 9m, EX EX-HiCap	30078078	218	Software, Winwedge	80850080	759
Column Kit, EX-HiCap	30078082	218	Ethernet Kit, EX EX-HiCap	83021082	275
Interface Kit, RS232-USB	30304101	207	Cable Extension RS422 2m EX EX-HiCap	83021083	155
Auxiliary display AD7-RS	30472064	104	In-Use-Cover, Terminal, EX	83033633	122
Paper Roll, Thermal, STP103	80251931	33			



EXPLORER™ PRECISION HIGH CAPACITY NTEP

Flagship Balances from OHAUS

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232 and USB (included) or second RS232/Ethernet (accessories sold separately). GLP/GMP data output with real-time clock.

Construction

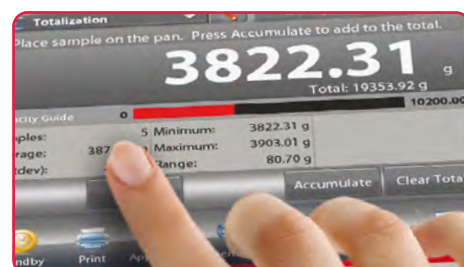
Modular design, IP54 metal base, Die-cast top housing, stainless steel pan, up-front level indicator, integral weigh below hook, calibration lock, two touchless sensors, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages

Operation

AC Adapter (included) or rechargeable battery (accessory sold separately)



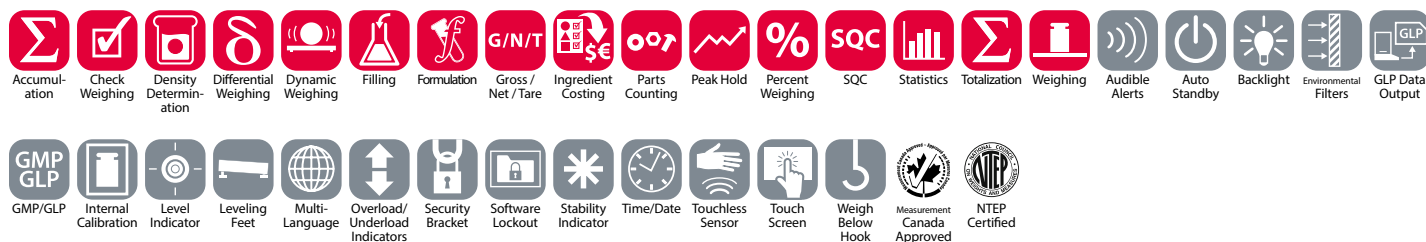
Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

2-D shock protection and IP54 base enclosure protect the balance from damage, while the AutoCal™ automatic internal calibration system ensures performance.

A detachable terminal with a large color touchscreen and programmable IR sensors make Explorer High-Capacity balances easy and convenient to use.

Model	AutoCal™	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
EX12001N	•	12,000 g	0.1 g	1 g	II	14.8 in x 12.2 in (377 mm x 311 mm)	30553892	5716
EX24001N	•	24,000 g	0.1 g	1 g	II	14.8 in x 12.2 in (377 mm x 311 mm)	30553893	6890
EX35001N	•	35,000 g	0.1 g	1 g	II	14.8 in x 12.2 in (377 mm x 311 mm)	30553894	8049

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
BATTERY, pack, Li-ion, R, 14.8V, 2600mAh	30041295	549	Cable ST103-EX MB PA TxxP	80252581	275
Wheel Kit, Set(4), EX-HiCap	30041470	238	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Printer, Impact, SF40A, AM	30064203	1409	Cable RS232 IBM 9P Male-to-Female	80500525	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Anti-Theft Device Lab Balance	80850043	330
Cable, RS422, 9m, EX EX-HiCap	30078078	218	Software, Winwedge	80850080	759
Column Kit, EX-HiCap	30078082	218	Ethernet Kit, EX EX-HiCap	83021082	275
Interface Kit, RS232-USB	30304101	207	Cable Extension RS422 2m EX EX-HiCap	83021083	155
Auxiliary display AD7-RS	30472064	104	In-Use-Cover, Terminal, EX	83033633	122
Paper Roll, Thermal, STP103	80251931	33			



ADVENTURER™ SEMI-MICRO

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



**EASY OPERATION
& TIME SAVING**

Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design, making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

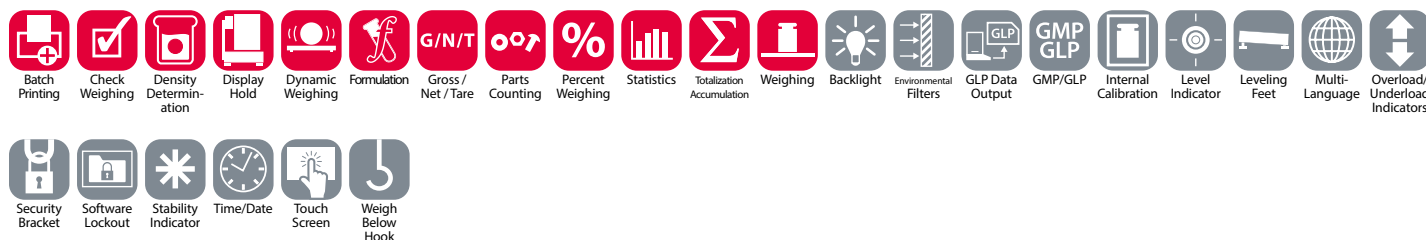


Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	Draftshield	Built-in Ionizer	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
AX85	•	-	•	82 g	0.01 mg	3.15 in (80 mm)	30852314	6592
AX125D	•	-	•	82 g/120 g	0.01 mg; 0.1 mg	3.15 in (80 mm)	30852313	7035
AX225D	•	-	•	102 g/220 g	0.01 mg; 0.1 mg	3.15 in (80 mm)	30852315	8469

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
In-Use-Cover DS AX	30111792	43
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087

Accessories	Item Number	List Price (USD)
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275
Sinker, Glass, Liquid, Density Kit	83034024	929



ADVENTURER™ ANALYTICAL

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



**EASY OPERATION
& TIME SAVING**

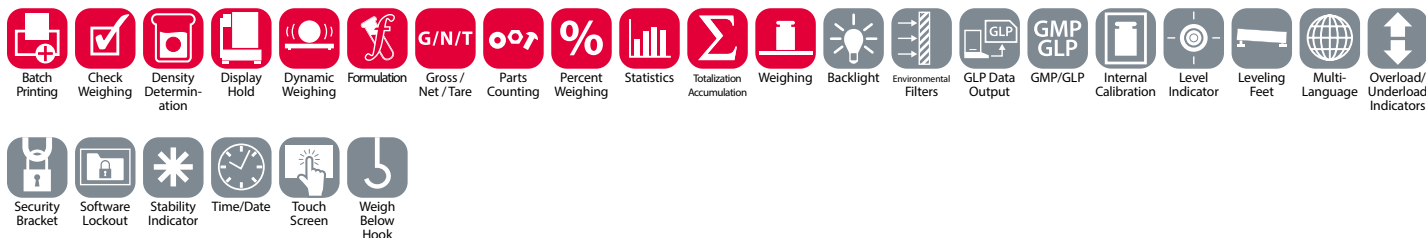
Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	Draftshield	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
AX124/E	•	-	120 g	0.1 mg	3.5 in (90 mm)	30100601	3513
AX124	•	•	120 g	0.1 mg	3.5 in (90 mm)	30100600	4257
AX224/E	•	-	220 g	0.1 mg	3.5 in (90 mm)	30100603	3857
AX224	•	•	220 g	0.1 mg	3.5 in (90 mm)	30100602	4699
AX324	•	•	320 g	0.1 mg	3.5 in (90 mm)	30100604	5135

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Cable ST103-EX MB PA TxxP	80252581	275
Printer, Impact, SF40A, AM	30064203	1409	Density Kit, Solids	80253384	1106
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
In-Use-Cover DS AX	30111792	43	Cable RS232 IBM 9P Male-to-Female	80500525	275
Static Ionizer, ION-100A, AM	30130302	2471	Anti-Theft Device Lab Balance	80850043	330
Interface Kit, RS232-USB	30304101	207	Software, Winwedge	80850080	759
Auxiliary display AD7-RS	30472064	104	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929
Printer, Thermal, STP-103, US	80251992	1087			



ADVENTURER™ ANALYTICAL NTEP

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



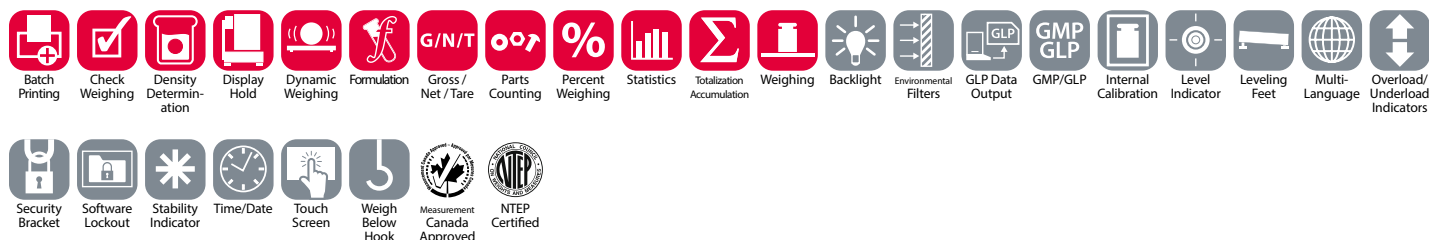
Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	Draftshield	AutoCal™	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
AX224N	•	•	220 g	0.1 mg	1 mg	I	3.5 in (90 mm)	30100630	4986

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Cable ST103-EX MB PA TxxP	80252581	275
Printer, Impact, SF40A, AM	30064203	1409	Density Kit, Solids	80253384	1106
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
In-Use-Cover DS AX	30111792	43	Cable RS232 IBM 9P Male-to-Female	80500525	275
Static Ionizer, ION-100A, AM	30130302	2471	Anti-Theft Device Lab Balance	80850043	330
Auxiliary display AD7-RS	30472064	104	Software, Winwedge	80850080	759
Paper Roll, Thermal, STP103	80251931	33	Cable, USB, Type A-B	83021085	275
Printer, Thermal, STP-103, US	80251992	1087	Sinker, Glass, Liquid, Density Kit	83034024	929



ADVENTURER™ PRECISION

Intuitive Balance Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with 2-piece top mounted side doors & sliding top door (1mg models only), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



Adventurer balances come with a color touchscreen, an icon-based user interface, and an ergonomic design, making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

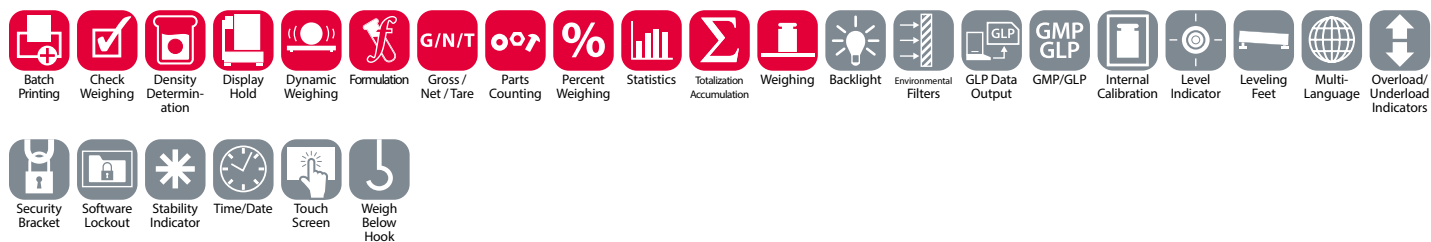
Model	AutoCal™	Draftshield	Capacity	Readability	Pan Size	Item Number	List Price (USD)
AX223/E	-	•	220 g	1 mg	5.1 in (130 mm)	30100606	2048
AX223	•	•	220 g	1 mg	5.1 in (130 mm)	30100605	2579
AX423/E	-	•	420 g	1 mg	5.1 in (130 mm)	30100608	2527
AX423	•	•	420 g	1 mg	5.1 in (130 mm)	30100607	3109
AX523/E	-	•	520 g	1 mg	5.1 in (130 mm)	30100610	2784
AX523	•	•	520 g	1 mg	5.1 in (130 mm)	30100609	3396
AX623	•	•	620 g	1 mg	5.1 in (130 mm)	30805882	3603
AX623/E	-	•	620 g	1 mg	5.1 in (130 mm)	30805883	3060
AX422/E	-	-	420 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30127981	1436
AX622	•	-	620 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30122632	1954
AX822/E	-	-	820 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30127983	1693
AX1502/E	-	-	1,520 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100612	1830
AX1502	•	-	1,520 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100611	2385
AX2202/E	-	-	2,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100614	1979
AX2202	•	-	2,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100613	2540
AX4202/E	-	-	4,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100616	2565
AX4202	•	-	4,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100615	3189
AX5202	•	-	5,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100617	3613
AX6202	•	-	6,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30805884	3858
AX6202/E	-	-	6,200 g	0.01 g	7.7 in x 6.9 in (195 mm x 175 mm)	30805885	3337
AX2201/E	-	-	2,200 g	0.1 g	7.7 in x 6.9 in (195 mm x 175 mm)	30248912	1617
AX4201/E	-	-	4,200 g	0.1 g	7.7 in x 6.9 in (195 mm x 175 mm)	30122635	1830
AX4201	•	-	4,200 g	0.1 g	7.7 in x 6.9 in (195 mm x 175 mm)	30122634	2104
AX8201/E	-	-	8,200 g	0.1 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100619	2048
AX8201	•	-	8,200 g	0.1 g	7.7 in x 6.9 in (195 mm x 175 mm)	30100618	2459

Product applications, features, and accessories on next page

ADVENTURER™ PRECISION ACCESSORIES

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A , SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
In-Use-Cover wo DS AX	30111777	43
In-Use-Cover DS AX	30111792	43
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33

Accessories	Item Number	List Price (USD)
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275



ADVENTURER™ PRECISION NTEP

Intuitive Balance Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with 2-piece top mounted side doors & sliding top door (1mg models only), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



Adventurer balances come with a color touchscreen, an icon-based user interface, and an ergonomic design, making them easy to configure and use.

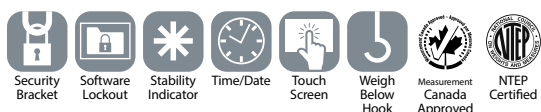
Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	AutoCal™	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
AX223N/E	-	•	220 g	0.001 g	0.01 g	II	5.1 in (130 mm)	30100631	2267
AX423N/E	-	•	420 g	0.001 g	0.01 g	II	5.1 in (130 mm)	30100633	2703
AX423N	•	•	420 g	0.001 g	0.01 g	II	5.1 in (130 mm)	30100632	3320
AX523N/E	-	•	520 g	0.001 g	0.01 g	II	5.1 in (130 mm)	30100634	3001
AX623N/E	-	•	620 g	0.001 g	0.01 g	II	5.1 in (130 mm)	30805899	3297
AX622N/E	-	-	620 g	0.01 g	0.1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30100635	1755
AX1502N/E	-	-	1,520 g	0.01 g	0.1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30100636	1979
AX2202N/E	-	-	2,200 g	0.01 g	0.1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30100637	2198
AX4202N/E	-	-	4,200 g	0.01 g	0.1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30122655	2784
AX6202N/E	-	-	6,200 g	0.01 g	0.1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30805900	3620
AX8201N/E	-	-	8,200 g	0.1 g	1 g	II	7.7 in × 6.9 in (195 mm × 175 mm)	30100639	2198

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
In-Use-Cover wo DS AX	30111777	43
In-Use-Cover DS AX	30111792	43
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33

Accessories	Item Number	List Price (USD)
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275



ADVENTURER™ PRECISION HIGH CAPACITY

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with 2-piece top mounted side doors & sliding top door (1mg models only), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



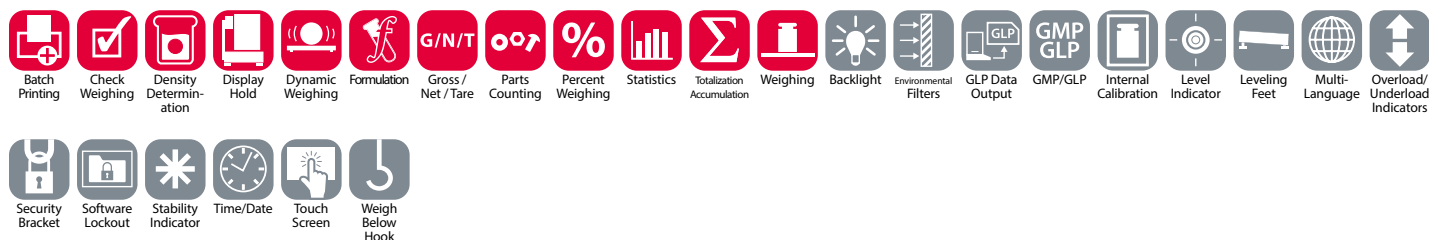
Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design, making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	AutoCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
AX12001/E	-	12,000 g	0.1 g	7.7 in x 6.9 in (195 x 175 mm)	30805887	3044
AX12001	•	12,000 g	0.1 g	7.7 in x 6.9 in (195 x 175 mm)	30805886	3647

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Cable ST103-EX MB PA TxxP	80252581	275
Printer, Impact, SF40A, AM	30064203	1409	Density Kit, Solids	80253384	1106
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
In-Use Cover wo DS AX	30111777	43	Cable RS232 IBM 9P Male-to-Female	80500525	275
Static Ionizer, ION-100A, AM	30130302	2471	Anti-Theft Device Lab Balance	80850043	330
Interface Kit, RS232-USB	30304101	207	Software, Winwedge	80850080	759
Auxiliary display AD7-RS	30472064	104	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929
Printer, Thermal, STP-103, US	80251992	1087			



ADVENTURER™ PRECISION HIGH CAPACITY NTEP

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with 2-piece top mounted side doors & sliding top door (1mg models only), illuminated up-front level indicator, weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Operation

AC adapter (included)



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design, making them easy to configure and use.

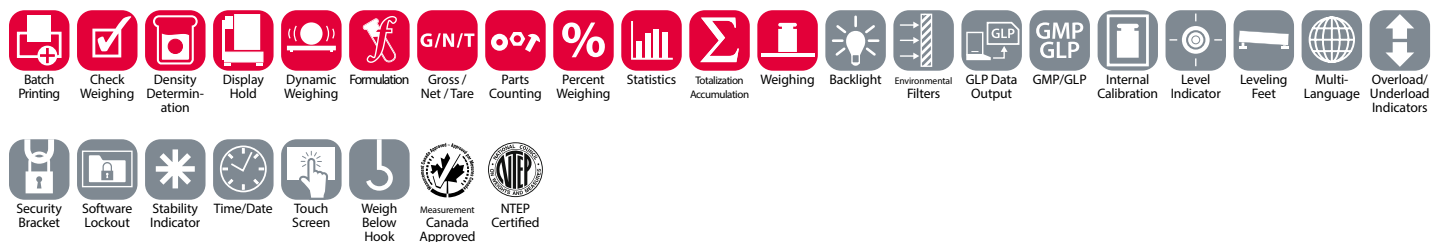
Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	AutoCal™	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
AX12001N/E	-	12,000 g	0.1 g	1 g	II	7.7 in x 6.9 in (195 x 175 mm)	30805901	3269

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
In-Use Cover w/ DS AX	30111777	43
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
Auxiliary display AD7-RS	30472064	104
Paper Roll, Thermal, STP103	80251931	33
Printer, Thermal, STP-103, US	80251992	1087

Accessories	Item Number	List Price (USD)
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275
Sinker, Glass, Liquid, Density Kit	83034024	929



PIONEER™ SEMI-MICRO

Combining Economy and High Performance for Essential Weighing

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Communication

RS232 and USB device (included)

Construction

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages

Operation

AC adapter (included)



The PX5 offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX5 is durably constructed for versatile, long-term use.

The PX5 features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB and RS232 connectivity for easy communication.

Model	InCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
PX85	•	82 g	0.01 mg	80 mm	30475733	5818
PX225D	•	82 g/220 g	0.01 mg; 0.1 mg	80 mm	30475734	6740

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
Printer, Impact, SF40A, AM	30064203	1409	Cable ST103-EX MB PA TxxP	80252581	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Density Kit, Solids	80253384	1106
Static Ionizer, ION-100A, AM	30130302	2471	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Interface Kit, RS232-USB	30304101	207	Cable RS232 IBM 9P Male-to-Female	80500525	275
In-Use-Cover, PX	30372546	67	Anti-Theft Device Lab Balance	80850043	330
Auxiliary display AD7-RS	30472064	104	Software, Winwedge	80850080	759
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929



PIONEER™ ANALYTICAL

Affordable Balance to Achieve Reliable Results

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages

Operation

AC adapter (included)

\$ ECONOMY & ACCURACY

**Recommended
CAL-PAK
WEIGHT SET**
for your laboratory
balance!
See page 10



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

PX features a second line display for additional information/guidance, & USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

Model	InCal™	Capacity	Readability	Pan Size	Item Number	List Price (USD)
PX84/E	-	82 g	0.1 mg	90 mm	30429845	2359
PX84	•	82 g	0.1 mg	90 mm	30429837	2752
PX124/E	-	120 g	0.1 mg	90 mm	30429846	2723
PX124	•	120 g	0.1 mg	90 mm	30429838	3152
PX224/E	-	220 g	0.1 mg	90 mm	30429847	3022
PX224	•	220 g	0.1 mg	90 mm	30430053	3465

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
Printer, Impact, SF40A, AM	30064203	1409	Cable ST103-EX MB PA TxxP	80252581	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Density Kit, Solids	80253384	1106
Static Ionizer, ION-100A, AM	30130302	2471	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Interface Kit, RS232-USB	30304101	207	Cable RS232 IBM 9P Male-to-Female	80500525	275
In-Use-Cover, PX	30372546	67	Anti-Theft Device Lab Balance	80850043	330
Auxiliary display AD7-RS	30472064	104	Software, Winwedge	80850080	759
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929



PIONEER™ PRECISION

Combining Economy and High Performance for Essential Weighing

Display

2-Line LCD with Backlight

Communication

RS232, USB

Construction

Metal base, plastic top housing, removable stainless steel pan, weigh-below-hook

Design Features

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, Real Time Clock with GLP/ GMP Data integrated, weigh-below-hook, security bracket, calibration lock and in-use cover, user selectable environmental filters and brightness settings, auto-tare, auto-dim, user selectable span calibration points, overload indicator, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages

Operation

Power Adaptor



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and educational settings at an economical pricepoint.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

The PX features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB and RS232 connectivity for easy communication.

Model	InCal™	Draftshield	Capacity	Readability	Pan Size	Item Number	List Price (USD)
PX163/E	-	•	160 g	0.001 g	120 mm	30429848	1373
PX163	•	•	160 g	0.001 g	120 mm	30429839	1723
PX323/E	-	•	320 g	0.001 g	120 mm	30429849	1598
PX323	•	•	320 g	0.001 g	120 mm	30429840	1935
PX623/E	-	•	620 g	0.001 g	120 mm	30699093	2019
PX623	•	•	620 g	0.001 g	120 mm	30699092	2312
PX1602/E	-	-	1,600 g	0.01 g	180 mm	30430058	1323
PX1602	•	-	1,600 g	0.01 g	180 mm	30430055	1641
PX2202/E	-	-	2,200 g	0.01 g	180 mm	30429850	1449
PX2202	•	-	2,200 g	0.01 g	180 mm	30429841	1779
PX3202/E	-	-	3,200 g	0.01 g	180 mm	30429851	1742
PX3202	•	-	3,200 g	0.01 g	180 mm	30429842	2092
PX4202/E	-	-	4,200 g	0.01 g	180 mm	30429852	1979
PX4202	•	-	4,200 g	0.01 g	180 mm	30429843	2346
PX6202/E	-	-	6,200 g	0.01 g	180 mm	30699095	2498
PX6202	•	-	6,200 g	0.01 g	180 mm	30699094	2888
PX2201/E	-	-	2,200 g	0.1 g	180 mm	30430059	1230
PX2201	•	-	2,200 g	0.1 g	180 mm	30430056	1517
PX4201/E	-	-	4,200 g	0.1 g	180 mm	30429853	1416
PX4201	•	-	4,200 g	0.1 g	180 mm	30429844	1718
PX12001	•	-	12,000 g	0.1 g	248 x 193 mm	30868075	2663
PX12001/E	-	-	12,000 g	0.1 g	248 x 193 mm	30868076	2228

Accessories on next page



PIONEER™ PRECISION ACCESSORIES

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A , SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
In-Use-Cover, PX	30372546	67
In-Use-Cover Full, w/o DS, PX	30759721	43
Auxiliary display AD7-RS	30472064	104
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72
Paper Roll, Thermal, STP103	80251931	33

Accessories	Item Number	List Price (USD)
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275
Sinker, Glass, Liquid, Density Kit	83034024	929
300 × 225mm Pan (PX12001, PX12001/E only)	30868077	206

PR SERIES ANALYTICAL

Designed for Routine Weighing Applications in Your Workplace

Display

Backlit Liquid Crystal Display (LCD)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, removable glass draftshield with sliding top door, integrated weigh-below-hook, security bracket, calibration lock

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator

Operation

AC adapter (included)



The PR is equipped with 3 essential weighing modes, RS-232 connectivity for data transfer and storage, and internal calibration (in select models), making it ideal for routine weighing applications.

Equipped with an easy-to-read, bright backlit display and a simple user interface, the PR is incredibly easy to operate, with almost no training required.

The PR's small footprint saves desktop space while providing a large weighing surface. The PR is durably constructed, and features a stainless steel pan to withstand day-to-day use in the workplace.

Model	InCal™	Capacity	Readability	Class	Pan Size	Item Number	List Price (USD)
PR64/E	-	62 g	0.1 mg	-	3.5 in (90 mm)	30430060	1911
PR124/E	-	120 g	0.1 mg	-	3.5 in (90 mm)	30529066	2203
PR124	•	120 g	0.1 mg	-	3.5 in (90 mm)	30529065	2483
PR224/E	-	220 g	0.1 mg	-	3.5 in (90 mm)	30430062	2448
PR224	•	220 g	0.1 mg	-	3.5 in (90 mm)	30430061	2752

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
Printer, Impact, SF40A, AM	30064203	1409	Cable ST103-EX MB PA TxxP	80252581	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Density Kit, Solids	80253384	1106
Static Ionizer, ION-100A, AM	30130302	2471	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Interface Kit, RS232-USB	30304101	207	Cable RS232 IBM 9P Male-to-Female	80500525	275
In-Use-Cover, PR	30372547	67	Anti-Theft Device Lab Balance	80850043	330
Auxiliary display AD7-RS	30472064	104	Software, Winwedge	80850080	759
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929



PR SERIES PRECISION

Designed for Routine Weighing Applications in Your Workplace

Display

Backlit Liquid Crystal Display (LCD)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, removable glass draftshield with sliding top door, integrated weigh-below-hook, security bracket, calibration lock

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator

Operation

AC adapter (included)



The PR is equipped with 3 essential weighing modes, RS-232 connectivity for data transfer and storage, and internal calibration (in select models), making it ideal for routine weighing applications.

Equipped with an easy-to-read, bright backlit display and a simple user interface, the PR is incredibly easy to operate, with almost no training required.

The PR's small footprint saves desktop space while providing a large weighing surface. The PR is durably constructed, and features a stainless steel pan to withstand day-to-day use in the workplace.

Model	InCal™	Draftshield	Capacity	Readability	Class	Pan Size	Item Number	List Price (USD)
PR223/E	-	•	220 g	0.001 g	-	4.7 in (120 mm)	30529239	1212
PR523/E	-	•	520 g	0.001 g	-	4.7 in (120 mm)	30430063	1446
PR1602/E	-	-	1,600 g	0.01 g	-	7.1 in (180 mm)	30529067	1118
PR2202/E	-	-	2,200 g	0.01 g	-	7.1 in (180 mm)	30430064	1274
PR4202/E	-	-	4,200 g	0.01 g	-	7.1 in (180 mm)	30430065	1523
PR2201/E	-	-	2,200 g	0.1 g	-	7.1 in (180 mm)	30529238	994
PR4201/E	-	-	4,200 g	0.1 g	-	7.1 in (180 mm)	30430066	1150

Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Static Ionizer, ION-100A, AM	30130302	2471
Interface Kit, RS232-USB	30304101	207
In-Use-Cover, PR	30372547	67
Auxiliary display AD7-RS	30472064	104
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72
Paper Roll, Thermal, STP103	80251931	33

Accessories	Item Number	List Price (USD)
Printer, Thermal, STP-103, US	80251992	1087
Cable ST103-EX MB PA TxxP	80252581	275
Density Kit, Solids	80253384	1106
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Software, Winwedge	80850080	759
Cable, USB, Type A-B	83021085	275
Sinker, Glass, Liquid, Density Kit	83034024	929



PR SERIES PRECISION NTEP

Designed for Routine Weighing Applications in Your Workplace

Display

Backlit Liquid Crystal Display (LCD)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, removable glass draftshield with sliding top door, integrated weigh-below-hook, security bracket, calibration lock

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator

Operation

AC adapter (included)



The PR is equipped with 3 essential weighing modes, RS-232 connectivity for data transfer and storage, and internal calibration (in select models), making it ideal for routine weighing applications.

Equipped with an easy-to-read, bright backlit display and a simple user interface, the PR is incredibly easy to operate, with almost no training required.

The PR's small footprint saves desktop space while providing a large weighing surface. The PR is durably constructed, and features a stainless steel pan to withstand day-to-day use in the workplace.

Model	InCal™	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item Number	List Price (USD)
PR323N/E	-	•	320 g	0.001 g	0.01 g	II	4.7 in (120 mm)	30455605	1479
PR523N	•	•	520 g	0.001 g	0.01 g	II	4.7 in (120 mm)	30452494	2185
PR523N/E	-	•	520 g	0.001 g	0.01 g	II	4.7 in (120 mm)	30455606	1885
PR822N/E	-	-	820 g	0.01 g	0.1 g	III	7.1 in (180 mm)	30455607	1218
PR2202N/E	-	-	2,200 g	0.01 g	0.1 g	II	7.1 in (180 mm)	30455668	1356
PR5202N/E	-	-	5,200 g	0.01 g	0.1 g	II	7.1 in (180 mm)	30455670	1891
PR6201N/E	-	-	6,200 g	0.1 g	1 g	III	7.1 in (180 mm)	30455673	1517

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A, SF40A/BT, AM	12120799	27	Printer, Thermal, STP-103, US	80251992	1087
Printer, Impact, SF40A, AM	30064203	1409	Cable ST103-EX MB PA TxxP	80252581	275
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597	Density Kit, Solids	80253384	1106
Static Ionizer, ION-100A, AM	30130302	2471	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Interface Kit, RS232-USB	30304101	207	Cable RS232 IBM 9P Male-to-Female	80500525	275
In-Use-Cover, PR	30372547	67	Anti-Theft Device Lab Balance	80850043	330
Auxiliary display AD7-RS	30472064	104	Software, Winwedge	80850080	759
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	72	Cable, USB, Type A-B	83021085	275
Paper Roll, Thermal, STP103	80251931	33	Sinker, Glass, Liquid, Density Kit	83034024	929



Gross / Net / Tare



Parts Counting



Percent Weighing



Weighing



Backlight



Environmental Filters



Internal Calibration



Level Indicator



Leveling Feet



Overload Protection



Security Bracket



Software Lockout



Stability Indicator



Weigh Below Hook



Measurement Canada Approved



NTEP Certified

SCOUT™ STX

High-Performance Portable Balances with Intuitive Touchscreens for High Accuracy and Productivity

Display

4.3" (109mm) full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232, USB Host, USB Device or Ethernet (available as an accessory)

Construction

ABS housing, stainless steel pan, ABS draftshield (1mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, stackable design with included storage cover (excluding 1mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620g capacity

Operation

AC Adapter (Included) or 4 AA Batteries (Not included)



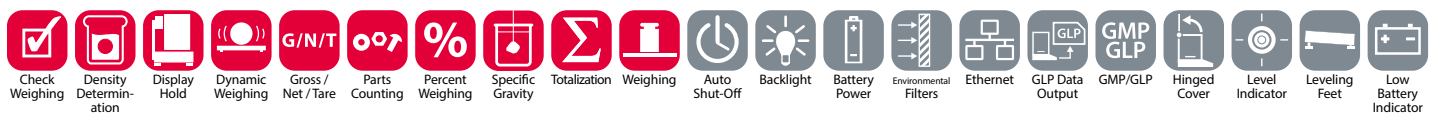
Large, intuitive, color touchscreen display allows for easy operation - guiding the user through every step of the weighing application.

Advanced weighing technology allows for one-second stabilization time for increased productivity.

Integrated overload protection system rated at ten times the capacity protects the balance in demanding environments.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
STX123	120 g	0.001 g	3.7 in (93 mm)	30253005	1092
STX223	220 g	0.001 g	3.7 in (93 mm)	30253006	1224
STX222	220 g	0.01 g	4.7 in (120 mm)	30253007	805
STX422	420 g	0.01 g	4.7 in (120 mm)	30253008	1125
STX622	620 g	0.01 g	4.7 in (120 mm)	30253009	1318
STX1202	1,200 g	0.01 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253010	1505
STX2202	2,200 g	0.01 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253011	1680
STX421	420 g	0.1 g	4.7 in (120 mm)	30253012	456
STX621	620 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253013	681
STX2201	2,200 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253014	862
STX6201	6,200 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253015	1362
STX8200	8,200 g	1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253016	706

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1409	Stacking Kit, x1, STX SPX SKX SJX/E	30268988	34
RS232 Interface, Scout	30268982	238	Density Kit, SKX STX SJX/E	30269020	33
USB Host Interface, Scout	30268983	238	Carrying Case, Scout	30269021	186
USB Device Interface, Scout	30268984	167	Power Adapter 5V 1A US Scout CX	30330714	38
Ethernet Interface, Scout	30268986	257	Auxiliary display AD7-MD	30472063	188
Stacking Kit, x6, STX SPX SKX SJX/E	30268987	95	Anti-Theft Device Lab Balance	80850043	330



SCOUT™ SPX

Portable Precision Balances Provide Consistently Accurate Measurements

Display

Liquid crystal display (LCD) with backlight

Communication

RS232, USB Host, USB Device or Ethernet (available as an accessory)

Construction

ABS housing, stainless steel pan, ABS draftshield (1mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, stackable design with optional storage cover (excluding 1mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620g capacity

Operation

AC Adapter (Included) or 4 AA Batteries (Not included)



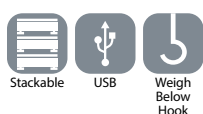
Large backlit display improves readability in low light conditions and is easier to view from a distance.

Integrated overload protection and impact-resistant pan allow the balance to operate efficiently in demanding environments.

Increase productivity with advanced weighing technology and stabilization time as fast as one-second.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
SPX123	120 g	0.001 g	3.7 in (93 mm)	30253017	962
SPX223	220 g	0.001 g	3.7 in (93 mm)	30253018	1074
SPX222	220 g	0.01 g	4.7 in (120 mm)	30253019	699
SPX422	420 g	0.01 g	4.7 in (120 mm)	30253020	981
SPX622	620 g	0.01 g	4.7 in (120 mm)	30253021	1150
SPX1202	1,200 g	0.01 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253022	1311
SPX2202	2,200 g	0.01 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253023	1474
SPX421	420 g	0.1 g	4.7 in (120 mm)	30253024	386
SPX621	620 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253025	571
SPX2201	2,200 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253026	731
SPX6201	6,200 g	0.1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253027	1193
SPX8200	8,200 g	1 g	5.5 in x 6.7 in (140 mm x 170 mm)	30253028	597

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1409	Stacking Kit, x1, STX SPX SKX SJX/E	30268988	34
RS232 Interface, Scout	30268982	238	Density Kit, SKX STX SJX/E	30269020	33
USB Host Interface, Scout	30268983	238	Carrying Case, Scout	30269021	186
USB Device Interface, Scout	30268984	167	Power Adapter 5V 1A US Scout CX	30330714	38
Ethernet Interface, Scout	30268986	257	Auxiliary display AD7-MD	30472063	188
Stacking Kit, x6, STX SPX SKX SJX/E	30268987	95	Anti-Theft Device Lab Balance	80850043	330



SCOUT™ SJX/E

Class II Legal-for-Trade Portable Balances Ideal for Jewelry Weighing

Display

Liquid crystal display (LCD) with backlight

Communication

RS232, USB Host, USB Device or Ethernet (available as an accessory)

Construction

ABS housing, stainless steel pan, ABS draftshield (1mg model only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, scoop and weight on 64g model

Operation

AC Adapter (Included) or 4 AA Batteries (Not included)



Scout meets Class II and III accuracy requirements for countertop retail applications.

Multiple connectivity options are available for easy data logging and communication. An optional auxiliary display can also be installed for retail applications.

Advanced weighing technology ensures reliable, repeatable weighing results.

Model	Capacity	Readability	Certified Readability	Pan Size	Item Number	List Price (USD)
SJX323N/E	64 g	0.001 g	0.01 g	3.7 in (93 mm)	30253054	962
SJX622N/E	1.37 lb (620 g)	0.00005 lb (0.01 g)	0.0005 lb (0.1 g)	4.7 in (120 mm)	30253055	1205
SJX1502N/E	3.3 lb (1,500 g)	0.00005 lb (0.01 g)	0.0005 lb (0.1 g)	5.5 in x 6.7 in (140 mm x 170 mm)	30253056	1400
SJX6201N/E	13.67 lb (6,200 g)	0.0005 lb (0.1 g)	0.005 lb (1 g)	5.5 in x 6.7 in (140 mm x 170 mm)	30253057	1235

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1409	Stacking Kit, x1, STX SPX SKX SJX/E	30268988	34
RS232 Interface, Scout	30268982	238	Density Kit, SKX STX SJX/E	30269020	33
USB Host Interface, Scout	30268983	238	Carrying Case, Scout	30269021	186
USB Device Interface, Scout	30268984	167	Power Adapter 5V 1A US Scout CX	30330714	38
Ethernet Interface, Scout	30268986	257	Auxiliary display AD7-MD	30472063	188
Stacking Kit, x6, STX SPX SKX SJX/E	30268987	95	Anti-Theft Device Lab Balance	80850043	330



NAVIGATOR™

Multi-Purpose Portable Balances Suitable for Everyday Weighing

Display

Liquid Crystal Display (LCD) with backlight

Communication

RS232, USB, or Ethernet (available as accessories)

Construction

ABS housing, stainless steel pan, transportation lock, slip-resistant and adjustable feet, leveling bubble

Design Features

Menu and calibration lock switch, mechanical and software overload/underload protection, stability indicator, low battery indicator, auto shut-off, user-selectable print options, user-selectable communication settings

Operation

AC adapter (included) or 4 C batteries (not included)



Navigator offers essential weighing applications at a competitive price point.

Advanced weighing technology offers one-second stabilization for fast and accurate weighing results, improving operator efficiency, productivity and throughput.

Overload protection system that can withstand loads up to four times the rated capacity safeguards the balance.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
NV123	120 g	0.001 g	3.7 in (93 mm)	30642238	563
NV223	220 g	0.001 g	3.7 in (93 mm)	30642239	626
NV323	320 g	0.001 g	3.7 in (93 mm)	30642240	687
NV222	220 g	0.01 g	5.7 in (145 mm)	30456410	506
NV422	420 g	0.01 g	5.7 in (145 mm)	30456411	644
NV622	620 g	0.01 g	5.7 in (145 mm)	30467960	656
NV1202	1,200 g	0.01 g	5.7 in × 7.5 in (144 mm × 190 mm)	30642241	731
NV2202	2,200 g	0.01 g	5.7 in × 7.5 in (144 mm × 190 mm)	30642242	769
NV3202	3,200 g	0.01 g	5.7 in × 7.5 in (144 mm × 190 mm)	30642243	805
NV221	220 g	0.1 g	5.7 in × 7.5 in (144 mm × 190 mm)	30456412	296
NV621	620 g	0.1 g	5.7 in × 7.5 in (144 mm × 190 mm)	30456413	434
NV1201	1,200 g	0.1 g	5.7 in × 7.5 in (144 mm × 190 mm)	30456414	491
NV2201	2,200 g	0.1 g	5.7 in × 7.5 in (144 mm × 190 mm)	30456415	545
NVT2201	2,200 g	0.1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456416	545
NVT4201	4,200 g	0.1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456417	681
NVT6201	6,200 g	0.1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30467961	686
NVT10201	10,200 g	0.1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30642244	723
NVT2200	2,200 g	1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456418	515
NVT6200	6,200 g	1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456419	681
NVT12000	12,000 g	1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456420	736
NVT22000	22,000 g	1 g	6.9 in × 9.1 in (174 mm × 230 mm)	30456421	880

Accessories on next page



NAVIGATOR™ ACCESSORIES

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1409
Carrying Case NV NVT	30467963	156
Adaptor Kit 12V 0.5A EU-US-AU-UK-KR	30467987	58
Weigh below hook NV NVT	30628012	26

Accessories	Item Number	List Price (USD)
RS232 Kit TA NV NVT	83032107	238
USB Kit TA NV NVT	83032108	238
Ethernet Kit NV NVT	83032109	238

COMPASS™ CX

Energy-Efficient Portable Scale Suitable for Workplace and in-the-Field Weighing

Display

Liquid Crystal Display (LCD) with backlight

Construction

ABS housing, stainless steel pan, transportation lock, slip-resistant feet

Design Features

Stability indicator, mechanical and software overload/underload protection, low battery indicator, auto shut-off

Operation

3 AA batteries (included) or AC adapter (not included)



Save money over the lifetime of the balance. Alkaline batteries allow you to maximize operating time by up to 1,000 hours of continuous, energy-efficient weighing in the workplace or classroom.

Large backlit display increases readability in low-light conditions and makes it easier to view results from a distance.

Slim, space-saving design allows for stackable storage for up to four scales.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
CX221	220 g	0.1 g	5.6 in × 5 in (142 mm × 128 mm)	30428199	228
CX621	620 g	0.1 g	5.6 in × 5 in (142 mm × 128 mm)	30428200	236
CX1201	1,200 g	0.1 g	5.6 in × 5 in (142 mm × 128 mm)	30428201	250
CX2200	2,200 g	1 g	5.6 in × 5 in (142 mm × 128 mm)	30428202	228
CX5200	5,200 g	1 g	5.6 in × 5 in (142 mm × 128 mm)	30428203	269
CX221P	220 g	0.1 g	5.6 in × 5 in (142 mm × 128 mm)	30467746	245
CX2200P	2,200 g	1 g	5.6 in × 5 in (142 mm × 128 mm)	30467747	246
CX5200P	5,200 g	1 g	5.6 in × 5 in (142 mm × 128 mm)	30467761	269
CX5200F*	5,200 g	1 g	5.6 in × 5 in (142 mm × 128 mm)	30467762	309

*Carrying case included

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Power Adapter 5V 1A US Scout CX	30330714	38	Pan SST CX	30428138	30
Power Adapter 5V 1A AU Scout CX	30333865	39	Carrying case CX CR	30467763	95
Power Adapter 5V 1A EU Scout CX	30333866	39	Bowl, 1050ml, CX CR	80850075	73
Power Adapter 5V 1A UK Scout CX	30333867	39			



COMPASS™ CR

Quality Portable Electronic Scales Suitable for Everyday Weighing.

Display

Liquid Crystal Display (LCD)

Construction

ABS housing and pan, transportation lock, slip-resistant feet

Design Features

Stability indicator, mechanical and software overload/underload protection, auto shut-off

Operation

3 AA batteries (included) or AC adapter (not included)



Intuitive two-button design makes for easy operation.

Slim, space-saving design allows for stackable storage.

Enlarged weighing platform can adequately handle large samples and a variety of objects.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
CR221	220 g	0.1 g	5.2 in × 5 in (132 mm × 125 mm)	30428204	164
CR621	620 g	0.1 g	5.2 in × 5 in (132 mm × 125 mm)	30428205	169
CR2200	2,200 g	1 g	5.2 in × 5 in (132 mm × 125 mm)	30428206	164
CR5200	5,200 g	1 g	5.2 in × 5 in (132 mm × 125 mm)	30428207	225

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Carrying case CX CR	30467763	95	Bowl, 1050ml, CX CR	80850075	73
Adaptor Kit 12V 0.5A EU-US-AU-UK-KR	30467987	58			



PS SERIES

High Performance Portable Weighing in the Palm of Your Hand!

Display

Liquid crystal display (LCD)

Construction

ABS housing and protective sliding pan

Design Features

Mechanical and software overload/underload protection, auto shut-off

Operation

2 lithium batteries (included)

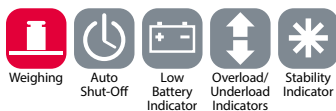


The one-piece combination pan and cover slides back when being used to weigh and forward when not in use to protect the buttons and display during storage and transportation.

One of the smallest portable balances on the market, PS can easily fit into a standard shirt pocket.

The "pop-out" design of the battery compartment provides simple and fast battery replacement.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
PS121	120 g	0.1 g	2.6 in x 2.5 in (66 mm x 63 mm)	80104060	105
PS251	250 g	0.1 g	2.6 in x 2.5 in (66 mm x 63 mm)	80104061	135



YA GOLD SERIES

Portable Precision Weighing in a Compact Case

Display

Backlit liquid crystal display (LCD)

Construction

ABS housing, stainless steel pan, protective cover

Design Features

Mechanical and software overload/underload protection, auto shut-off

Operation

2 AAA batteries (included)

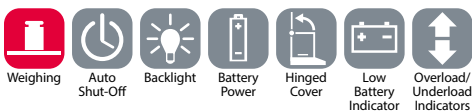


A hinged cover, sturdy plastic housing and stainless steel weighing pan protect the small balance from damage.

With an extremely fast stabilization time, your results will appear quickly on the blue backlit LCD display.

Powered by two 'AAA' batteries, a power-saving auto shut-off feature helps to conserve battery life.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
YA102	100 g	0.01 g	2.8 in x 2 in (70 mm x 50 mm)	80251910	158
YA302	300 g	0.05 g	2.8 in x 2 in (70 mm x 50 mm)	80251911	138
YA501	500 g	0.1 g	2.8 in x 2 in (70 mm x 50 mm)	80251912	99





Moisture Analyzer Selection Guide

		MB120	MB92 (NEW)	MB62 (NEW)	MB32 (NEW)	MB23
Weighing Capacity		120 g	90 g	90 g	90 g	110 g
Readability		0.01% / 1 mg	0.01% / 1 mg	0.01% / 1 mg	0.01% / 1 mg	0.1% / 10 mg
Temperature Range		40°C – 230°C (1°C)	40°C – 200°C (1°C)	40°C – 200°C (1°C)	40°C – 180°C (1°C)	50°C – 160°C (5°C)
Smart Guide		•				
Heater	Carbon Fiber Heater		•	•	•	
	Halogen Heater	•				
	IR Heater					•
Heating Profiles	Standard	•	•	•	•	•
	Fast	•	•	•	•	
	Ramp	•	•	•		
	Step	•	•	•		
Shut-Off Criteria	Manual	•	•	•	•	•
	Timed	•	•	•	•	•
	Auto	•	•	•	•	•
	Auto (User Defined mg/s)	•	•			
	Auto (User Defined %/s)	•				
Features	User Management	•				
	Method Library	100	20	20	2	—
	Result Library	1000	200	100	—	—
	Screen	4.3" full color touchscreen	4.3" capacitive touch screen glass screen cover	120mm x 55mm LCD dot matrix 2nd line display	95mm x 45mm LCD dot matrix 2nd line display	Single line LCD
	Connectivity	RS-232, USB device, USB host	RS-232, USB device, USB host	RS-232, USB device	RS-232, USB device	RS-232
Page No.		45	46	47	48	49

MB120

Faster, Smarter, More Efficient Moisture Analysis

Display

4.3" TFT color touchscreen display

Communication

RS232 with GLP/GMP data output, USB Host and USB Device (included)

Construction

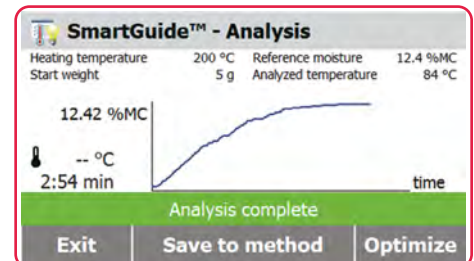
Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover

Design Features

Seven shut-off criteria (manual, timed, autofree %/s, autofree mg/s, A30, A60 and A90), four drying profiles (standard, fast, ramp and step), storage up to 100 methods and 1000 test results for all methods, user guide, 40°C to 230°C heating temperature range (1°C increments), 14 operational languages

Operation

Power cord (included)



Get started quickly with SmartGuide™. This revolutionary feature automatically analyzes a sample and creates a method, thereby removing the guesswork from the initial setup.

The MB120 has the capability to produce fast and accurate results due to features such as a halogen heating system, customizable shut-off criteria and four built in drying profiles.

The MB120 allows storage of up to 100 methods and 1,000 measurement results. Stored results can be exported, and methods can be shared across multiple devices.

Model	Capacity	Moisture Readability	Pan Size	Item Number	List Price (USD)
MB120	120 g	1 mg/0.01%	3.5 in (90 mm)	30241165	6995

Accessories	Item Number	
Temp. calibration kit MB Series	11113857	841
Printer, Impact, SF40A, AM	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Handle Pan MB90 MB120	30246947	104
Scoop, Accessory, MB9x MB120	30284477	74
In-Use-Cover, Accessory, MB9x MB120	30284478	113
Interface Kit, RS232-USB	30304101	207

Accessories	Item Number	
Interface Kit, RS232-Ethernet	30304102	207
Cage, Sample, MB Series	80252477	150
Pan, Reusable, Set(3), 7mm, MB Series	80252478	125
Pan, Reusable, Set(3), 14mm, MB Series	80252479	130
Anti-Theft Device Lab Balance	80850043	330
Pan Aluminum Set MB Series	80850086	95
Filter Glass Fiber, Set(200) Series	80850087	148



MB92

High Performance Moisture Analysis with Advanced Features

Display

4.3" Capacitive touchscreen display

Communication

RS232, USB Host, USB Device (cables not included)

Construction

Carbon fiber heating source, enhanced durability, metal pan support, metal pan handler, in-use cover

Design Features

Upgraded load cell, 8 shut-off criteria including custom settings, 4 heating profiles, 40C to 200C heating range

Operation

Power cord (included)



Robust and durable with the new carbon heating technology and an upgraded full color capacitive touchscreen.

Multiple drying profiles, shut off criteria and methods offer great flexibility in method creation. Enhanced password protection ensures greater data security and integrity.

A full glass panel and tool-free heating chamber assembly makes cleaning and maintenance easy. Perfect for both the laboratory and the production floor.

Model	Capacity	Moisture Readability	Pan Size	Item Number	List Price (USD)
MB92	90 g	1 mg / 0.01%	3.5 in (90 mm)	30971930	4900

Accessories	Item Number	
Pan Handler, MB32, MB62, MB92	30954234	95
In-Use-Cover, MB92	30954269	67
Temp. calibration kit MB Series	11113857	841
Scoop	30284477	74
SF40A Impact Printer	30064203	1409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1597
Interface Kit, RS232-USB	30304101	207
Interface Kit, RS232-Ethernet	30304102	207

Accessories	Item Number	
Cage, Sample, MB Series	80252477	150
Reusable Pan, Set (3), 7mm	80252478	125
Reusable Pan, Set (3), 14mm	80252479	130
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Aluminum Pan (80)	80850086	95
Glass Fiber Pads (200)	80850087	148



MB62

Designed for Durability and Flexible Performance for a Variety of Applications

Display

5" LCD with dot matrix second line display

Communication

RS232, USB Device (cables not included)

Construction

Carbon fiber heating source, enhanced durability, metal pan support, metal pan handler, in-use cover

Design Features

Upgraded load cell, knob control, 7 shut-off criteria, 4 heating profiles, 40C to 200C heating range

Operation

Power cord (included)



Designed with durability and simplicity in mind, the wide 5-inch LCD display, knob control, and new carbon fiber heating technology guarantee a longer service life and reliable results.

Flexible method and sample management with 4 drying profiles, 7 shut off criteria and library storage for up to 20 methods and 100 results with sample ID for easy recall.

Always understand the status of your test with the status indication curve and multi-color status light.

Model	Capacity	Moisture Readability	Pan Size	Item Number	List Price (USD)
MB62	90 g	1 mg / 0.01%	3.5 in (90 mm)	30971929	4,200

Accessories	Item Number	
Pan Handler, MB32, MB62, MB92	30954234	95
In-Use-Cover, MB32, MB62	30954235	26
Temp. calibration kit MB Series	11113857	841
Scoop	30284477	74
SF40A Impact Printer	30064203	1,409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1,597
Interface Kit, RS232-USB	30304101	207
Interface Kit, RS232-Ethernet	30304102	207

Accessories	Item Number	
Cage, Sample, MB Series	80252477	150
Reusable Pan, Set (3), 7mm	80252478	125
Reusable Pan, Set (3), 14mm	80252479	130
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Aluminum Pan (80)	80850086	95
Glass Fiber Pads (200)	80850087	148



MB32

Perfect for Routine Moisture Testing

Display

LCD with dot matrix second line display

Communication

RS232, USB Device (cables not included)

Construction

Carbon fiber heating source, enhanced durability, metal pan support, metal pan handler, in-use cover

Design Features

Upgraded load cell, knob control, 5 shut-off criteria, 2 heating profiles, 40C to 180C heating range

Operation

Power cord (included)



An LCD with second line display, navigation knob, and intuitive operation makes for convenient and easy routine moisture testing.

The new carbon fiber heating technology and upgraded loadcell shortens analysis time, saves power, and produces accurate and repeatable results.

Robust, slim design with a strong housing ensures MB32's durability even in harsh environments.

Model	Capacity	Moisture Readability	Pan Size	Item Number	List Price (USD)
MB32	90 g	1 mg / 0.01%	3.5 in (90 mm)	30971928	3,300

Accessories	Item Number	
Pan Handler, MB32, MB62, MB92	30954234	95
In-Use-Cover, MB32, MB62	30954235	26
Temp. calibration kit MB Series	11113857	841
Scoop	30284477	74
SF40A Impact Printer	30064203	1,409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1,597
Interface Kit, RS232-USB	30304101	207
Interface Kit, RS232-Ethernet	30304102	207

Accessories	Item Number	
Cage, Sample, MB Series	80252477	150
Reusable Pan, Set (3), 7mm	80252478	125
Reusable Pan, Set (3), 14mm	80252479	130
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Aluminum Pan (80)	80850086	95
Glass Fiber Pads (200)	80850087	148



MB23

Outstanding Performance, Flexible Configuration and Reliable Results

Display

Backlit liquid crystal display (LCD)

Communication

RS232 (included)

Construction

Infrared heat source, ABS housing, metal pan support, metal pan handler, in-use cover

Design Features

3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50° to 160° C heating range (5° C increments)

Operation

Power cord (included)



Glass-less infrared heating increases efficiency for faster results.

User-friendly touch-button design for easy operation.

Compact design suits any workspace.

Model	Capacity	Moisture Readability	Pan Size	Item Number	List Price (USD)
MB23	110 g	10 mg/0.1%	3.5 in (90 mm)	83999801	4,112

Accessories	Item Number	
Temp. calibration kit MB Series	11113857	841
Printer, Impact, SF40A, AM	30064203	1,409
Bluetooth Impact Printer, SF40A/BT, AM	30944360	1,597
Interface Kit, RS232-USB	30304101	207
Interface Kit, RS232-Ethernet	30304102	207
In-Use-Cover, MB23 MB25 MB27	80252475	59
Holder Pan MB23 MB25 MB27	80252476	113

Accessories	Item Number	
Cage, Sample, MB Series	80252477	150
Pan, Reusable, Set(3), 7mm, MB Series	80252478	125
Cable RS232 IBM 9P Male-to-Female	80500525	275
Anti-Theft Device Lab Balance	80850043	330
Pan Aluminum Set MB Series	80850086	95
Filter Glass Fiber, Set(200) Series	80850087	148
Filter Glass Fiber, Set(200) Series	80850087	148



TRIPLE BEAM PRO™

Best-in-Class Mechanical Balance!

Display

Easy to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Two notched and tiered beams, positive poise positioning, spring loaded zero adjust compensator, self-aligning beam design, magnetic dampening to minimize oscillation and speed weighing, security loop, included weight set and storage compartment



The unique, easy-grip carrying handle is ergonomically designed to allow for effortless movement around the classroom.

A convenient compartment provides a place to store the weight set when not in use, preventing the weights from becoming lost.

Prevent theft and accidental dropping by securing the balance to a desk or bench top with the security loop or Kensington-type lock (sold separately).

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
TP2611	2,610 g	0.1 g	5.8 in × 5.8 in (147 mm × 147 mm)	80621692	318
Accessories		Item Number	List Price (USD)	Accessories	
Kit, Rod and Clamp		80780011	106	Anti-Theft Device, SP PA AV NV	
Weight Set, 2x1kg, 1x500g		80780108	104	Anti-Theft Device Lab Balance	
				80850000	128
				80850043	330



TRIPLE BEAM™ 700 SERIES

The Standard by Which All Other Mechanical Balances Are Measured.

Display

Easy-to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Easy-to-read notched and tiered beams, self-aligning beam design, magnetic dampening to minimize oscillation and speed weighing, zero adjust compensator



Superior magnetic damping provides stable results three times faster than any other three-beam balance on the market.

Five weighing pans of different sizes and designs can accommodate materials for a variety of weighing applications.

A counterbalancing knob provides quick zeroing of the balance while a self-aligning beam helps ensure accurate results.

Model	Pan Type	Readability	Capacity	Tare Beam	Pan Size	Item Number	List Price (USD)
750-S0	Fixed Pan	0.1 g	610 g		2.38 in × 6 in (60.5 mm × 152 mm)	80000012	222
760-00	Fixed Pan	0.1 g	610 g	•	2.38 in × 6 in (60.5 mm × 152 mm)	80000013	414
710-00	Removable Pan	0.1 g	610 g		0.74 in × 6 in (18.9 mm × 152 mm)	80000011	402
710-T0	Removable Pan	0.1 g	610 g	•	0.74 in × 6 in (18.9 mm × 152 mm)	80000031	490
720-00	Polypropylene Scoop	0.1 g	610 g		12 in × 2.75 in × 6 in (30.5 mm × 70 mm × 152 mm)	80000032	470
720-S0	Stainless Steel Scoop	0.1 g	610 g		12 in × 1.7 in × 7.4 in (305 mm × 43 mm × 188 mm)	80000033	546
730-00	Animal Container	0.1 g	610 g		6 in × 9 in (152 mm × 229 mm)	80000034	590

Accessories	Item Number	List Price (USD)
Subject Box	80000053	153
Kit, Rod and Clamp	80780011	106
Scoop and Counter Weight, SST	80780015	186

Accessories	Item Number	List Price (USD)
Weight Set, 2x1kg, 1x500g	80780108	104
Anti-Theft Device, SP PA AV NV	80850000	128



Weighing

TRIPLE BEAM DIAL-O-GRAM™ 1600 SERIES

The Standard by Which All Others Are Measured!

Display

Easy to Read Deep Notched and Tiered Beams and Dial Plates

Construction

Metal Base and Beam, Stainless Steel Pan

Design Features

Counterbalancing knob for quick zeroing, positive poise positioning for repeatable results, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing.



Superior magnetic damping provides three times faster stability reading than any other three-beam balance on the market.

Vernier dial convenience.

Counterbalancing knob for quick zeroing, self-aligning beam design.

Model	Readability	Capacity	Tare Beam	Pan Size	Item Number	List Price (USD)
1650-00	0.1 g	610 g	•	6 in (152 mm)	80000006	517
1610-00	0.1 g	610 g	•	6 in (152 mm)	80000036	596
1650-W0	0.1 g	2,610 g	•	6 in (152 mm)	80000037	596

Accessories	Item Number	List Price (USD)
Scoop, Flat Bottomed, SST, 0.6l	80250400	106
Kit, Rod and Clamp	80780011	106
Scoop and Counter Weight, SST	80780015	186

Accessories	Item Number	List Price (USD)
Weight Set, 2x1 kg, 1x500g	80780108	104
Anti-Theft Device, SP PA AV NV	80850000	128



DIAL-O-GRAM™ AND CENT-O-GRAM™ 300 SERIES

Extremely Precise Mechanical Balance with High Readability.

Display

Easy to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

self-aligning beam design, magnetic damping to minimize oscillation and speed weighing, zero adjust compensator



- With aluminum pressure castings for the base and beam assembly, agate bearings, steel knife-edges, and stainless steel pan, the Dial-O-Gram is built to the highest standard of quality.
- The three-point base, special floating bearing principle and beam design eliminates the need for level adjustments.
- The self-aligning beam ensures accurate results are garnered effortlessly.

Model	Capacity	Readability	Beams	Pan Size	Item Number	List Price (USD)
310-00	310 g	0.01 g	2 Beams with Dial	0.5 in × 3.5 in (13 mm × 89 mm)	80000009	582
311-00	311 g	0.01 g	4 Beams	0.5 in × 3.5 in (13 mm × 89 mm)	80000010	481

Accessories	Item Number	List Price (USD)
Anti-Theft Device, SP PA AV NV	80850000	128



HARVARD TRIP™

Two Pan Balance Designed for Comparative Weighing.

Display

Deep notched and tiered beams

Construction

All-metal base and beam, stainless steel pan

Design Features

Weight set (2000g model, accessory sold separately), built-in sliding masses, magnetic damping, self-aligning beam design and floating agate bearings, counterbalancing knob for quick zeroing, hardened steel edges



The built-in sliding masses make weighing very simple and quick.

Magnetic damping minimizes oscillation and helps speed up weighing.

A counterbalancing knob provides quick zeroing of the balance while floating agate bearings helps ensure accurate results.

Model	Capacity	Readability	Beams	Pan Size	Item Number	List Price (USD)	
1450-SD	2,000 g	0.1 g	1 Beam	6.2 in (152 mm)	80000003	538	
1550-SD	2,000 g	0.1 g	2 Beams	6.2 in (152 mm)	80000004	574	
1560-SD	2,000 g	0.1 g	2 Beams and Tare Beam	6.2 in (152 mm)	80000005	601	
Accessories		Item Number	List Price (USD)	Accessories		Item Number	List Price (USD)
Kit, Rod and Clamp		80780011	106	Anti-Theft Device, SP PA AV NV		80850000	128
Scoop and Counter Weight, SST		80780015	186	Weight Set, 1kg-1g, ASTM 6, CYL		80850115	669



SCHOOL BALANCE

The Young Scientist's First Balance!

Display

Plastic pointer

Construction

ABS base, beam, and pans

Design Features

Zero adjust compensator



Large, washable pans provide optimal space for samples to be weighed.

18 piece, color coded stackable plastic mass set included.

Front and rear pointers allow students to view results from both sides of the balance.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
SB1200	2,000 g	0.5 g	5.5 in x 5.5 in (140 mm x 140 mm)	80000029	97

PRIMER™ BALANCE

The Scale for Budding Scientists!

Display

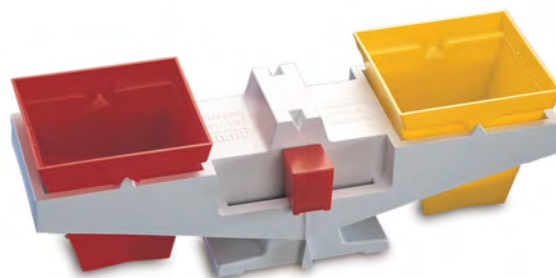
Plastic pointer

Construction

ABS base, beam, and pans

Design Features

Large, washable weighing pans, dual pointers, 18 piece stackable plastic mass set



An activity guide with 16 exercises is included with every Primer balance.

The easy-to-slide zero adjustment weight makes ensuring the balance is ready for weighing very simple.

Front and rear pointers allow students to view results from both sides of the balance.

Model	Capacity	Readability	Pan Size	Item Number	List Price (USD)
80410-00	2,000 g	1 g	4 in × 4 in (102 mm × 102 mm)	80000024	69



SPRING SCALES

Producing Reproducible Results at Unbeatable Prices!

Display

Dial plates

Construction

ABS housing with metal face plate, pointer, spring and hook

Design Features

Large bright colored dial face, easy-to-read black graduations on a frosted aluminum background



Pull type spring scales feature an internal spring mechanism and offer a versatile and inexpensive way to display measurements in grams, ounces, pounds and Newton's.

Dial type spring scales offer a versatile and inexpensive weight determination in classrooms, laboratories, field studies and much more.

Demonstration spring scales offer a large faceplate for easy viewing and are ideal for all basic weighing applications.

Model	Capacity	Readability	Spring scale type	Item Number	List Price (USD)
8001-MA	9 oz / 250 g	0.25 oz / 10 g	Pull type	80000039	37
8002-MA	18 oz / 500 g	0.5 oz / 20 g	Pull type	80000041	37
8004-MA	72 oz / 20000 g	2 oz / 50 g	Pull type	80000044	37
8001-MN	250 g / 2.5 N	10 g / 0.1 N	Pull type	80000014	34
8002-MN	500 g / 5 N	20 g / 0.2 N	Pull type	80000015	34
8003-MN	1000 g / 10 N	25 g / 0.25 N	Pull type	80000016	34
8004-MN	2000 g / 20 N	50 g / 0.5 N	Pull type	80000017	34
8008-MN	5000 g / 50 N	100 g / 1 N	Pull type	80000018	34
8261-M0	100 g	1 g	Pull type	80000025	40
8262-M0	200 g	2 g	Pull type	80000026	40
8263-M0	500 g	5 g	Pull type	80000027	40
8264-M0	1000 g	10 g	Pull type	80000028	40
8265-M0	2000 g	20 g	Pull type	80000052	40
8002-PN	1.12 lb / 5 N	0.04 lb / 0.2 N	Pull type	80000042	40
8003-PN	2.25 lb / 10 N	0.05 lb / 0.25 N	Pull type	80000043	40
8004-PN	4.5 lb / 20 N	0.1 lb / 0.5 N	Pull type	80000045	40
8008-PN	11.25 lb / 50 N	0.25 lb / 1 N	Pull type	80000046	40
8011-MA	9 oz / 250 g	0.125 oz / 2 g	Dial type	80000047	56
8014-MA	72 oz / 2000 g	0.5 oz / 20 g	Dial type	80000049	56
8011-MN	250 g / 2.5 N	2 g / 0.02 N	Dial type	80000019	53
8012-MN	500 g / 5 N	5 g / 0.05 N	Dial type	80000020	53
8013-MN	1000 g / 10 N	10 g / 0.1 N	Dial type	80000021	56
8014-MN	2000 g / 20 N	20 g / 0.2 N	Dial type	80000022	53
8016-00	20 N	1/2 N	Dial type	80000023	105
8018-50	50 N	2 N	Dial type	80000051	116



Weighing

NOTES

Industrial Weighing



OHAUS offers a full line of products designed for industrial applications, including sophisticated, newly released software for our most powerful products. From shipping scales up to 5,000 lb floor scales, OHAUS has a product for use in every area of your facility.



Compact Bench Scales									
	Ranger 7000	Ranger 4000	Ranger 3000	Valor 7000	Valor 4000	Valor 2000	Valor 3000	Valor 1000	Courier 1000
	R71	R41 / RC41	R31 / RC31	V71	V41	V22	V31	V12	C12
Capacity Range (lb)	6 to 150	6 to 60	3 to 60	3 to 60	3 to 30	3 to 60	0.4 to 13.2	5 to 60	20 to 165
Weighing Pan/ Base Size (approx.)	8 × 8" to 12 × 15"	9 × 12"	9 × 12"	9 × 12"	7.5 × 9.5"	7.5 × 9.5"	4.7Ø or 6 × 6"	7.5 × 9.6"	11 × 12"
lb, oz, lb:oz, kg, g	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	lb/kg only
Parts Counting	Yes	Yes	Yes						
Library Size (items)	2,500	RC41 - 30	RC31 - 30						
Checkweighing	Yes	Yes	Yes	Yes	Yes	XW only			
Percent Weighing	Yes	R41 only	R31 only	Yes	Yes		Yes		
Display Hold / Dynamic Weigh	Yes	Yes	Yes						Yes
Totalization / Accumulation	Yes	Yes	Yes	Yes	Yes				
Filling	Yes								
NTEP/Masurement Canada ²	Yes	Yes	Yes	Yes	Yes		NTEP *	T models	
Display	Backlit graphic	R41—White LED RC41—Backlit LCD	Backlit LCD	Backlit LCD	Red LED	Red LED	Backlit LCD	Backlit LCD	LCD
Numeric Keypad	Alphanumeric	RC41/31— Numeric							
Washdown IP/ NEMA Rating					IPX8	IPX8	"W" IP65 models		
NSF Listed/ Certified			Yes	Yes	Yes	Yes	Yes	Yes	
RS232	Yes	Yes	Yes	Yes				Option T models	
USB	Host & Device	Option	Option	Option					
2 nd RS232	Option	Option	Option	Option					
RS485/422									
Ethernet	Option	Option	Option	Option					
AC or DC Relays / Digital I/O	Option								
Wireless Connectivity	Option								
GLP/GMP w/Time/ Date	Yes								
Rechargeable Batteries	Option	Yes	Yes	Yes	Yes	Yes			
Disposable Batteries							Yes	Yes	Yes
Barcode Support	Yes								
Remote Scale Base Input	Option	Option	RC Option						
Remote Display	Option	Option							
Page No.	94	95, 92	96, 93	97	98	100	99	101	91

¹ Some higher capacity models may not support all weighing units, check datasheets for more information.

² General spec but may vary based on model and weighing unit used.

* certain models only

	Modular Scales								
	Defender 6000	Defender 5000	Defender 3000	Drum	Defender 5000 Floor	Defender 3000 Floor	Courier 7000	Courier 5000	Courier 3000
	D61	D52	D33	DFD25	DF52	DF33	C71	C52	C31
Capacity Range (lb)	5 to 250	5 to 1,000	30 to 1,200	500 to 2,500	2,500 to 5,000	2,500 to 5,000	30 to 250	12 to 400	70 to 400
Weighing Pan/ Base Size (approx.)	10×10" to 16×20"	10×10" to 24×32"	12×14" to 20×26"	30×30" or 3×3'	3×3', 4×4'	3×3', 4×4' or 5×5'	12×14" to 24×24"	13×13" to 24×35"	12×13" to 16×20.5"
lb, oz, lb:oz, kg, g	All weighing units ¹	All weighing units ¹	All weighing units ¹	lb/kg only	All weighing units ¹	All weighing units ¹	All weighing units ¹	All weighing units ¹	lb/kg only
Parts Counting	Yes	Yes	Yes	Yes	Yes	Yes			
Library Size	300	50,000			50,000				
Checkweighing	Yes	Yes	Yes		Yes	Yes			
Percent Weighing	Yes	Yes			Yes				
Display Hold / Dynamic Weigh	Yes	Yes		Yes	Yes		Yes	Yes	Display Hold
Shipping Protocols							Yes	UPS only	
Totalization / Accumulation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Filling	XW	Yes			Yes				
Peak Hold				Yes					
NTEP/Measurement Canada ²	Yes	Yes	Yes		NTEP only	NTEP only	Yes		
Display	Backlit LCD	Backlit Dot Matrix	Backlit LCD	Backlit LCD	Backlit Dot Matrix	Backlit LCD	Backlit LCD		
Numeric Keypad	Numeric	Alphanumeric			Alphanumeric				
Washdown IP/ NEMA Rating	IP69K for K1, IP67 for W bases	"W" models IP67	"C1" models IP66		"C1" models IP67	"C1" models IP66			
NSF Listed/ Certified	K1 Base models								
RS232	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
USB	XW - Option	Option	Option	Yes / Option	Option	Option	Yes	Yes	
2 nd RS232	XW - Option	Option			Option		Yes		
RS485/422	XW - Option	485 - Option			485 - Option				
Ethernet	XW - Option	Option	Option	Option	Option	Option	Option		
AC or DC Relays / Digital I/O	XW - Option	Option			Option				
Wireless Connectivity	XW - Option	Option			Option		Option		
GLP/GMP w/Time/ Date	Yes	Yes			Yes				
Rechargeable Batteries	XW option	Option	XW — Yes; P — Option		Option	XW — Yes; P — Option			
Disposable Batteries	P models		P models	Yes		P models	Yes	Yes	Yes
Barcode Support	XW models	Yes	Label Printer		Yes	Label Printer			
Remote Display		Option		Option	Option		Option		
Page No.	69	74	84	62	66	64	88	89	90

¹Some higher capacity models may not support all weighing units, check datasheets for more information.

²General spec but may vary based on model and weighing unit used.

* certain models only

DEFENDER™ DRUM SCALES- I-DFD25P

Convenient Portability with Floor Scale Capacity

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication ports including RS232 interface (included) and USB-C

Construction

Painted steel platform with treads, ABS indicator, aluminum junction box, four alloy steel load cells with top height adjustment, front/back access ramps, optional USB Device or Ethernet

Design Features

Selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto-off, auto tare. Alloy steel feet with top height adjustment. Painted and stainless steel floor stands (available as accessories)

Operation

4 AA (LR6) Batteries (Not Included); AC Adapter (Included); USB Cable (Included)



Our Drum Scales come in 5 models with platform sizes ranging from 30 × 30 to 36 × 36 inch, and capacities ranging from 500 to 2,500lb, giving you the flexibility to choose what best suits your weighing needs.

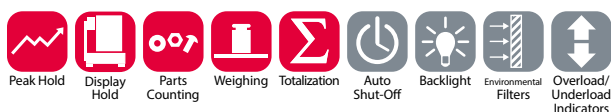
The OHAUS Drum Scales feature a platform constructed of mild steel with an epoxy paint finish, which means that the scale can stand up to heavy industrial use.

A low-profile design with front and back access ramps that make it easy to roll pallet jacks, dollies, carts and drums on to the platform. High-density polyurethane wheels provide convenient portability.

Model	Capacity	Readability	Platform Size	Item Number	List Price (USD)
DFD25P500E1S	500 lb (250 kg)	0.1 lb (0.05 kg)	30 × 30 in / 762 × 762 mm	30936455	1,313
DFD25P1000E1S	1,000 lb (500 kg)	0.2 lb (0.1 kg)	30 × 30 in / 762 × 762 mm	30936456	1,313
DFD25P2500E1S	2,500 lb (1,250 kg)	0.5 lb (0.2 kg)	30 × 30 in / 762 × 762 mm	30936457	1,313
DFD25P1000E1R	1,000 lb (500 kg)	0.2 lb (0.1 kg)	36 × 36 in / 914.4 × 914.4 mm	30936608	1,628
DFD25P2500E1R	2,500 lb (1,250 kg)	0.5 lb (0.2 kg)	36 × 36 in / 914.4 × 914.4 mm	30936609	1,628

Accessories	Item Number	List Price (USD)
Column Kit Painted Floor Scale	30531244	284
Column Kit Stainless Steel Floor Scale	30539553	360
Printer, Impact, SF40A, AM	30064203	1,409
Interface Kit, RS232-USB	30304101	207
Interface Kit, RS232-Ethernet	30304102	207

Accessories	Item Number	List Price (USD)
Printer, Thermal, STP-103, US	80251992	1,087
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Cable RS232 IBM 9P Male-to-Female	80500525	275
DB9 Adapter, Male-to-Male	30692384	9
Auxiliary Display, AD7-MD	30472063	188



DEFENDER™ 3000 FLOOR SCALES-I-DF33

Floor Scales for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS plastic (DF33P models) or 304 stainless steel (DF33XW models) indicator, 5mm / 0.196in. fixed top plate, black treaded painted steel platform, IP65 stainless steel junction box with side access, alloy steel load cells, two carbon steel eye bolts, available painted steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)

Operation

Internal power supply with power cord (included), 6C (LR14) Batteries (DF33P models — not included) or Rechargeable Battery (DF33XW models — included)



Painted carbon steel, treaded decks with four alloy steel load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

Platforms available in sizes of 3' x 3' ft, 4' x 4' ft and 5' x 5' ft, and capacities from 2,500lb to 5,000lb with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.

Results are clearly shown on the large, bright backlit LCD display. In Checkweighing mode, display changes color (yellow/green/red) to alert users when within the target weight range.

Floor Scales with Plastic Indicator (can be powered with disposable batteries)

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF33P2500B1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' x 3' / 0.914 x 0.914 m	30837601	2,001
i-DF33P2500B1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' x 4' / 1.219 x 1.219 m	30837603	2,271
i-DF33P5000B1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' x 4' / 1.219 x 1.219 m	30837604	2,271
i-DF33P5000B1X	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5' x 5' / 1.524 x 1.524 m	30716508	2,487

Floor Scales with Stainless Steel Indicator, Internal Rechargeable Battery

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF33XW2500B1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' x 3' / 0.914 x 0.914 m	30837691	2,109
i-DF33XW2500B1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' x 4' / 1.219 x 1.219 m	30837692	2,379
i-DF33XW5000B1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' x 4' / 1.219 x 1.219 m	30837693	2,379
i-DF33XW5000B1X	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5' x 5' / 1.524 x 1.524 m	30716510	2,596

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Foot Plate Kit, Painted Steel, for i-DFxxxB1x	72198344	83	Dust Cover (5) i-DT33	30699121	67
Ramp Kit, 36", Painted Steel, for i-DFxxxB1R	30812889	499	Rechargeable Battery Kit i-DT33P	30699122	67
Ramp Kit, 48", Painted Steel, for i-DFxxxB1L	80252565	814	SF40A Printer	30064203	1,409
Ramp Kit, 60", Painted Steel, for i-DFxxxB1X	80252566	925	Thermal Printer STP-103	80251992	1,087
Floor Scale Column Kit Painted	30531244	284	Zebra Label Printer ZD421T with RS232	30928908	973
Floor Scale Column Kit Stainless Steel	30539553	360	Cable RS232 i-DT33P	80500525	275
Ethernet Kit i-DT33	30429666	238	Cable RS232 i-DT33XW	80500552	256
USB Device Kit i-DT33	30699120	133	Auxiliary display AD7-RS	30472064	104



Check Weighing



Gross / Net / Tare



Parts Counting



Weighing



Totalization



Auto Shut-Off



Backlight



Battery Power



Environmental Filters



LED Check Weighing Indicator



Level Indicator



Leveling Feet



Low Battery Indicator



Overload Protection



Overload/Underload Indicators



Rechargeable Battery



Software Lockout



Stability Indicator



NTEP Certified

DEFENDER™ 3000 WASHDOWN FLOOR SCALES-I-DF33

Floor Scales for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

304-grade stainless steel IP66 indicator, 5mm / 0.196in. fixed top plate, stainless steel platform, IP68 stainless steel junction box with side access, IP68 load cells, available stainless steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)

Operation

Internal power supply with power cord (included) or Rechargeable Battery (included)



304 stainless steel, flat surface decks with 4 IP68 load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

Platforms available in sizes of 3' x 3' or 4' x 4', and capacities from 2,500lb to 5,000lb with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.



Results are clearly shown on the large, bright backlit LCD display. In Checkweighing mode, display changes color (yellow/green/red) to alert users when within the target weight range.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF33XW2500C1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' x 3' / 0.914 x 0.914 m	30837602	4,505
i-DF33XW2500C1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' x 4' / 1.219 x 1.219 m	30837605	5,110
i-DF33XW5000C1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' x 4' / 1.219 x 1.219 m	30837606	5,110

Accessories	Item Number	List Price (USD)
Foot Plate Kit, Stainless Steel, for i-DFxxxC1x	72198345	110
Ramp Kit, 36", Stainless Steel, for i-DFxxxC1R	30812890	1,069
Ramp Kit, 48", Stainless Steel, for i-DFxxxC1L	30812891	1,035
Ramp Kit, 60", Stainless Steel, for i-DFxxxC1X	30812892	1,273
Floor Scale Column Kit Stainless Steel	30539553	360
Ethernet Kit i-DT33	30429666	238
USB Device Kit i-DT33	30699120	133

Accessories	Item Number	List Price (USD)
Dust Cover (5) i-DT33	30699121	67
SF40A Printer	30064203	1,409
Cable RS232 i-DT33XW	80500552	256
Thermal Printer STP-103	80251992	1,087
Cable RS232 i-DT33XW	80500552	256
Zebra Label Printer ZD421T with RS232	30928908	973



DEFENDER™ 5000 FLOOR SCALES-I-DF52

Floor Scales for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included); second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

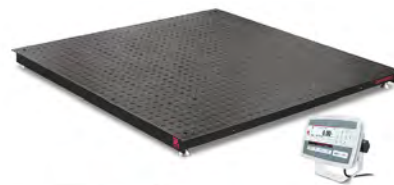
ABS plastic (DF52P models) or 304 stainless steel (DF52XW models) indicator, 5mm / 0.196in. fixed top plate, black treaded painted steel platform, IP65 stainless steel junction box with side access, alloy steel load cells, two carbon steel eye bolts, available painted steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



Painted carbon steel, treaded decks with four alloy steel load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

Platforms available in sizes of 3' × 3' or 4' × 4', and capacities from 2,500lb to 5,000lb with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.

Equipped with new TD52 series indicator featuring an easy-to-use keypad, large backlit display, and plain text on-screen prompts which guide you through operation.

Floor Scales with Plastic Indicator

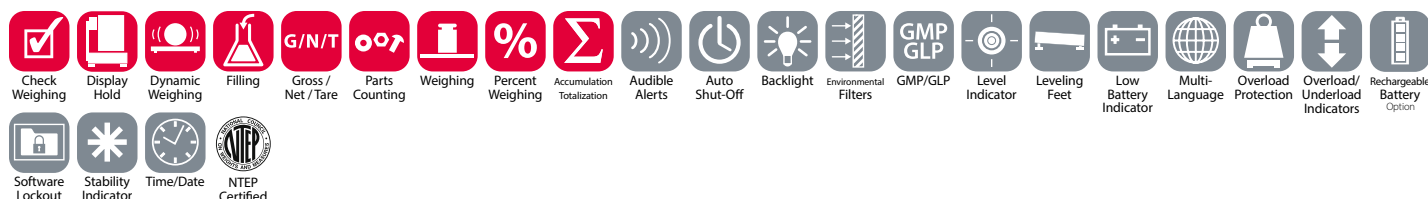
Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF52P2500B1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' × 3' / 0.914 × 0.914 m	30837696	2,460
i-DF52P2500B1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' × 4' / 1.219 × 1.219 m	30837698	2,731
i-DF52P5000B1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' × 4' / 1.219 × 1.219 m	30837699	2,731

Floor Scales with Stainless Steel Indicator

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF52XW2500B1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' × 3' / 0.914 × 0.914 m	30837706	2,650
i-DF52XW2500B1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' × 4' / 1.219 × 1.219 m	30837707	2,920
i-DF52XW5000B1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' × 4' / 1.219 × 1.219 m	30837708	2,920

Accessories	Item Number	List Price (USD)
Foot Plate Kit Painted Steel for i-DFxxxB1x	72198344	83
Ramp Kit 36" Painted Steel for i-DFxxxB1R	30812889	499
Ramp Kit 48" Painted Steel for i-DFxxxB1L	80252565	814
Ramp Kit 60" Painted Steel for i-DFxxxB1X	80252566	925
Battery Kit, Li-ion, TD52	30424405	285
USB Host for Dongle, TD52	30424406	201
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	328
I/O with Relay (2 In/4 Out)	30097591	221
Light Tower, 3 Colors, 243mm, IP65 (Requires 30097591)	30424021	275
Analog Output Kit, TD52	30424403	238
Second RS232/RS485/USB Kit, TD52	30424404	238
Ethernet Kit, TD52	30429666	238

Accessories	Item Number	List Price (USD)
USB Host for Flash Drive	30572923	191
In-use Cover Kit, TD52P	30424022	32
In-use Cover Kit, TD52XW	30424023	40
Floor Scale Column Kit Painted	30531244	284
Floor Scale Column Kit SST	30539553	360
Printer Holder Kit, D52	30424025	89
Thermal Printer STP-103	80251992	1,087
SF40A Printer	30064203	1,409
Cable RS232 TD52P	80500525	275
Cable RS232 TD52XW	80500552	256
Zebra Label Printer ZD421T with RS232	30928908	973
Datalogic Barcode Scanner QD2131	30593703	272



DEFENDER™ 5000 WASHDOWN FLOOR SCALES-I-DF52

Floor Scales for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included); second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel IP68 indicator, 5mm / 0.196in. fixed top plate, stainless steel platform, IP68 stainless steel junction box with side access, IP68 load cells, available stainless steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



304 stainless steel, flat surface decks with 4 IP68 load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

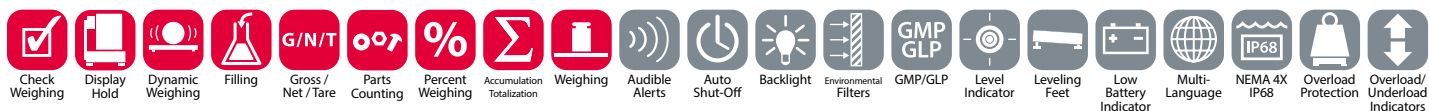
Platforms available in sizes of 3 × 3 or 4 × 4 ft, and capacities from 2,500lb to 5,000lb with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.

Equipped with new TD52 series indicator featuring an easy-to-use keypad, large backlit display, and plain text on-screen prompts which guide you through operation.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF52XW2500C1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' × 3' / 0.914 × 0.914 m	30837697	5,538
i-DF52XW2500C1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' × 4' / 1.219 × 1.219 m	30837700	6,143
i-DF52XW5000C1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' × 4' / 1.219 × 1.219 m	30837701	6,143

Accessories	Item Number	List Price (USD)
Foot Plate Kit Stainless Steel for i-DFxxxC1x	72198345	110
Ramp Kit 36" Stainless Steel for i-DFxxxC1R	30812890	1,069
Ramp Kit 48" Stainless Steel for i-DFxxxC1L	30812891	1,035
Ramp Kit 60" Stainless Steel for i-DFxxxC1X	30812892	1,273
Battery Kit, Li-ion, TD52	30424405	285
USB Host for Dongle, TD52	30424406	201
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	328
I/O with Relay (2 In/4 Out)	30097591	221
Light Tower, 3 Colors, 243mm, IP65 (Requires 30097591)	30424021	275
Analog Output Kit, TD52	30424403	238
Second RS232/RS485/USB Kit, TD52	30424404	238

Accessories	Item Number	List Price (USD)
Ethernet Kit, TD52	30429666	238
USB Host for Flash Drive	30572923	191
In-use Cover Kit, TD52P	30424022	32
In-use Cover Kit, TD52XW	30424023	40
Floor Scale Column Kit SST	30539553	360
Printer Holder Kit, D52	30424025	89
Thermal Printer STP-103	80251992	1,087
SF40A Printer	30064203	1,409
Cable RS232 TD52P	80500525	275
Cable RS232 TD52XW	80500552	256
Zebra Label Printer ZD421T with RS232	30928908	973
Datalogic Barcode Scanner QD2131	30593703	272



DEFENDER™ 3000 FLOOR PLATFORMS

Platforms for Basic Industrial Applications

Construction

5mm / 0.196in. fixed top plate, black treaded painted steel platform, IP65 stainless steel junction box with side access, alloy steel load cells, two carbon steel eye bolts, available painted steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)



Painted carbon steel, treaded decks with four alloy steel load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

Platforms available in sizes of 3 × 3 ft, 4 × 4 ft and 5 × 5 ft, and capacities from 2,500 lb. to 5,000 lb. with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.

Platforms are equipped with a 20ft EasyConnect™ cable which allows instant configuration with Defender indicators for quicker installation.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF2500B1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' × 3' / 0.914 × 0.914 m	30716491	1,569
i-DF2500B1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' × 4' / 1.219 × 1.219 m	30716493	1,839
i-DF5000B1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' × 4' / 1.219 × 1.219 m	30716494	1,839
i-DF2500B1X	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	5' × 5' / 1.524 × 1.524 m	30716497	2,055
i-DF5000B1X	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5' × 5' / 1.524 × 1.524 m	30716498	2,055

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Foot Plate Kit, Painted Steel, for i-DFxxxB1x	72198344	83	Ramp Kit, 60", Painted Steel, for i-DFxxxB1X	80252566	925
Ramp Kit, 36", Painted Steel, for i-DFxxxB1R	30812889	499	Floor Scale Column Kit Painted	30531244	284
Ramp Kit, 48", Painted Steel, for i-DFxxxB1L	80252565	814	Floor Scale Column Kit Stainless Steel	30539553	360



DEFENDER™ 3000 WASHDOWN FLOOR PLATFORMS

Platforms for Basic Industrial Applications

Construction

5mm / 0.196in. fixed top plate, 304-grade stainless steel platform, IP68 stainless steel junction box with side access, IP68 load cells, available stainless steel ramps

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, stainless steel floor stands (available as accessories)



304 stainless steel, flat surface decks with 4 IP68 load cells, fixed top plate (5 mm / 0.196 in. thick) with structural bracing for stiff construction.

Platforms available in sizes of 3 × 3 ft, 4 × 4 ft and 5 × 5 ft, and capacities from 2,500 lb. to 5,000 lb. with NTEP certified 5,000e performance, allowing greater flexibility for your weighing needs.

Platforms are equipped with a 20ft EasyConnect™ cable which allows instant configuration with Defender indicators for quicker installation.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-DF2500C1R	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	3' × 3' / 0.914 × 0.914 m	30716492	3,893
i-DF2500C1L	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4' × 4' / 1.219 × 1.219 m	30716495	4,570
i-DF5000C1L	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4' × 4' / 1.219 × 1.219 m	30716496	4,570
i-DF2500C1X	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	5' × 5' / 1.524 × 1.524 m	30716499	5,056
i-DF5000C1X	5,000 lb / 2,500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5' × 5' / 1.524 × 1.524 m	30716500	5,056

Accessories	Item Number	List Price (USD)
Foot Plate Kit, Stainless Steel, for i-DFxxxC1x	72198345	110
Ramp Kit, 36", Stainless Steel, for i-DFxxxC1R	30812890	1,069
Ramp Kit, 48", Stainless Steel, for i-DFxxxC1L	30812891	1,035

Accessories	Item Number	List Price (USD)
Ramp Kit, 60", Stainless Steel, for i-DFxxxC1X	30812892	1,273
Floor Scale Column Kit Stainless Steel	30539553	360



DEFENDER™ 6000 WASHDOWN - METAL INDICATOR

Advanced IP68/IP69k Washdown Bench Scale

Display

6-digit, 7-segment white LED, 20 mm / 0.8 inch high digits, 3 color checkweigh bar matrix

Communication

Easy access communication ports including RS232 and USB host (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

316 stainless steel platform and frame, hermetically-sealed, stainless steel load cell, IP68/IP69K 316 stainless steel housing indicator and mounting bracket, knife-resistant front panel

Design Features

150% overload capacity protection, bar matrix check light, customizable print templates, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto shut-off, auto tare, adjustable non-slip rubber feet

Operation

100-240 VAC / 50/60 Hz universal power supply, hardwired



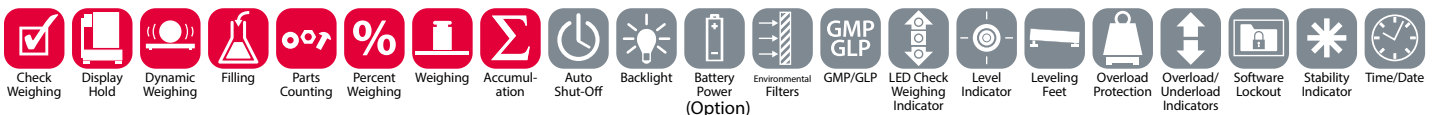
Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel base and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.

Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D61XWE5K1S6	10 lb (5 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	9.8 in x 9.8 in (250 mm x 250 mm)	30575563	2,352
D61XWE12K1R6	25 lb (12.5 kg)	0.002 lb (1 g)	0.005 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575564	2,460
D61XWE25K1R6	50 lb (25 kg)	0.005 lb (2 g)	0.01 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575565	2,460
D61XWE50K1L7	100 lb (50 kg)	0.01 lb (5 g)	0.02 lb (10 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575566	2,893
D61XWE150K1L7	300 lb (150 kg)	0.02 lb (10 g)	0.1 lb (50 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575567	2,893

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Ethernet kit Defender Series	30429666	238
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221	Sealing Kit External Power Bank	30572907	392
Gland M16 D52	30379716	32	Datalogic Barcode Scanner QD2131	30593703	272
Wireless Dongle MTICWD-200	30412537	328	Zebra Label Printer ZD421T with RS232	30928908	973
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275	Wheel Kit SST Defender Series	30616409	238
Analog Output Kit, TD52 DT61XW	30424403	238	Printer, Thermal, STP-103, US	80251992	1,087
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238	PCBA Kit, Alibi Memory, R71 T71	80500503	175
Cable Extension 9m/27 ft D52 / D61	30424409	238	Cable RS232 XW Indicators	80500552	256



DEFENDER™ 6000 WASHDOWN - PLASTIC INDICATOR

Advanced IP68/IP69K Washdown Bench Scale

Display

6-digit, 7-segment LCD display with white backlight, 45 mm / 1.8 inch high digits, 3 color checkweigh bar matrix

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

316 stainless steel platform and frame, hermetically-sealed stainless steel load cell, IP68/IP69K food grade polycarbonate housing indicator and 316 stainless steel mounting bracket or column

Design Features

150% overload capacity protection, 3-color check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, adjustable rubber feet

Operation

6 D (LR20) Batteries (Included)



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection, 316 stainless steel base and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.

Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D61PW5K1S6	10 lb (5 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	9.8 in x 9.8 in (250 mm x 250 mm)	30575569	2,244
D61PW12K1R6	25 lb (12.5 kg)	0.002 lb (1 g)	0.005 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575570	2,374
D61PW25K1R6	50 lb (25 kg)	0.005 lb (2 g)	0.01 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575571	2,374
D61PW50K1L7	100 lb (50 kg)	0.01 lb (5 g)	0.02 lb (10 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575572	3,044
D61PW150K1L7	300 lb (150 kg)	0.02 lb (10 g)	0.1 lb (50 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575573	3,044
D61PW5K1S5*	10 lb (5 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	9.8 in x 9.8 in (250 mm x 250 mm)	30575568	2,309
D61PW12K1R5*	25 lb (12.5 kg)	0.002 lb (1 g)	0.005 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575562	2,401
D61PW25K1R5*	50 lb (25 kg)	0.005 lb (2 g)	0.01 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30608733	2,401
D61PW50K1L5*	100 lb (50 kg)	0.01 lb (5 g)	0.02 lb (10 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30608734	3,109
D61PW150K1L5*	300 lb (150 kg)	0.02 lb (10 g)	0.1 lb (50 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30608735	3,109

* Models ending in 5 have a Front Mount indicator

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Cable Extension 9m/27 ft D52 / D61	30424409	238	Wheel Kit SST Defender Series	30616409	238
IR Communication Kit	30572910	108			



DEFENDER™ 6000 HYBRID - METAL INDICATOR

Washdown Bench Scale for Standard Industrial Applications

Display

6-digit, 7-segment white LED, 20 mm / 0.8 inch high digits, 3 color checkweigh bar matrix

Communication

Easy access communication ports including RS232 and USB host (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304 stainless steel platform and frame, IP68/IP69K 316 stainless steel housing indicator and mounting bracket, knife-resistant front panel, IP67 load cell

Design Features

150% overload capacity protection, bar matrix check light, customizable print templates, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto shut-off, auto tare, adjustable non-slip rubber feet

Operation

100-240 VAC / 50/60 Hz universal power supply, hardwired



Defender 6000 indicator, constructed of 316 stainless steel stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

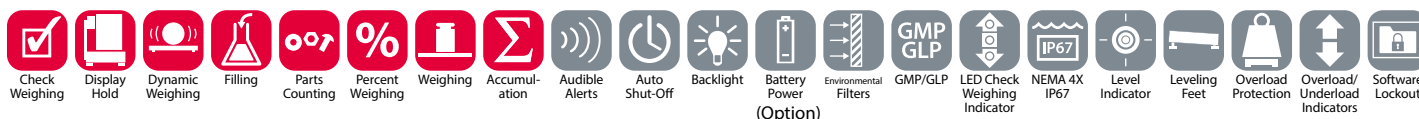
White LED displays clear results for fast processing. The indicator's configurable color bar matrix allows for detailed package weight checking to ensure compliance.

Durably constructed with a 304 stainless steel platform, frame, IP67 loadcell, Defender 6000 hybrid meets NTEP/Measurement Canada approvals.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D61XWE2WQS6	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in x 10 in (254 mm x 254 mm)	30631706	2,201
D61XWE5WQS6	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in x 10 in (254 mm x 254 mm)	30631707	2,201
D61XWE12WQS6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in x 10 in (254 mm x 254 mm)	30631718	2,201
D61XWE12WQR6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30631719	2,374
D61XWE25WQR6	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30631720	2,374
D61XWE50WQR6	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in x 12 in (305 mm x 305 mm)	30631721	2,374
D61XWE25WQL7	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in x 18 in (457 mm x 457 mm)	30631722	3,260
D61XWE50WQL7	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in x 18 in (457 mm x 457 mm)	30631723	3,260
D61XWE125WQL7	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in x 18 in (457 mm x 457 mm)	30631724	3,260

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Gland M16 D52	30379716	32
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238
Cable Extension 9m/27 ft D52 / D61	30424409	238

Accessories	Item Number	List Price (USD)
Ethernet kit Defender Series	30429666	238
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Wheel Kit SST Defender Series	30616409	238
Printer, Thermal, STP-103, US	80251992	1,087
PCBA Kit, Alibi Memory, R71 T71	80500503	175
Cable RS232 XW Indicators	80500552	256
Sealing Kit External Power Bank	30572907	392



DEFENDER™ 6000 HYBRID - PLASTIC INDICATOR

Washdown Bench Scale for Standard Industrial Applications

Display

6-digit, 7-segment LCD display with white backlight, 45 mm / 1.8 inch high digits, 3 color checkweigh bar matrix

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

321 stainless steel platform and frame, IP68/IP69K polycarbonate housing indicator and 316 stainless steel mounting bracket for D61PW-5 models, 304 stainless steel columns for D61PW-6 or 7 models, IP67 load cell

Design Features

150% overload capacity protection, 3-color check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, adjustable rubber feet

Operation

6 D (LR20) batteries (included)



Defender 6000 indicator constructed of polycarbonate stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

Large, bright backlit LCD clearly displays results for fast processing. The color bar can be used for quick checking of package weights for fast go/no-go alert.

Durably constructed with a 304 stainless steel platform, frame, IP67 loadcell, Defender 6000 hybrid meets NTEP/Measurement Canada approvals.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D61PW2WQS6	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in x 10 in (254 mm x 254 mm)	30626679	1,919
D61PW5WQS6	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in x 10 in (254 mm x 254 mm)	30626680	1,919
D61PW12WQS6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in x 10 in (254 mm x 254 mm)	30626681	1,919
D61PW12WQR6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30626682	2,093
D61PW25WQR6	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30626683	2,093
D61PW50WQR6	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in x 12 in (305 mm x 305 mm)	30626684	2,093
D61PW25WQL7	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in x 18 in (457 mm x 457 mm)	30631703	2,958
D61PW50WQL7	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in x 18 in (457 mm x 457 mm)	30631704	2,958
D61PW125WQL7	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in x 18 in (457 mm x 457 mm)	30631705	2,958
D61PW2WQSS*	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in x 10 in (254 mm x 254 mm)	30631725	2,109
D61PW5WQSS*	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in x 10 in (254 mm x 254 mm)	30631726	2,109
D61PW12WQSS*	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in x 10 in (254 mm x 254 mm)	30631727	2,109
D61PW12WQR5*	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30631728	2,271
D61PW25WQR5*	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in x 12 in (305 mm x 305 mm)	30631729	2,271
D61PW50WQR5*	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in x 12 in (305 mm x 305 mm)	30631730	2,271
D61PW25WQL5*	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in x 18 in (457 mm x 457 mm)	30572969	2,839
D61PW50WQL5*	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in x 18 in (457 mm x 457 mm)	30572970	2,839
D61PW125WQL5*	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in x 18 in (457 mm x 457 mm)	30572971	2,839

* Models ending in 5 have a Front Mount indicator

Accessories on next page



DEFENDER™ 6000 HYBRID - PLASTIC INDICATOR ACCESSORIES

Accessories	Item Number	List Price (USD)
Cable Extension 9m/27 ft D52 / D61	30424409	238
IR Communication Kit	30572910	108

Accessories	Item Number	List Price (USD)
Wheel Kit SST Defender Series	30616409	238

DEFENDER™ 5000 WASHDOWN

Multifunctional Stainless Steel Washdown Bench Scale for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), USB Host, second RS232/RS485/USD device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 stainless steel load cell (single range), non-slip adjustable rubber feet

Design Features

Resolution up to 12,500d, 150% overload capacity, checkweighing display and beep, menu lock switch, selectable display languages, selectable filter, stability indicator, overload/underload indicators, selectable display controls, auto print and tare

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durably constructed of a stainless steel platform, frame & IP68 indicator; IP67 stainless steel loadcell (NTEP/MC/OIML/EC Type single range).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52XW2WQS6	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in × 10 in (254 mm × 254 mm)	30461673	2,190
D52XW5WQS6	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in × 10 in (254 mm × 254 mm)	30461674	2,190
D52XW12WQS6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in × 10 in (254 mm × 254 mm)	30461675	2,190
D52XW12WQR6	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461676	2,369
D52XW25WQR6	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461677	2,369
D52XW50WQR6	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30461678	2,369
D52XW25WQL7	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in × 18 in (457 mm × 457 mm)	30461679	3,342
D52XW50WQL7	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30461680	3,342
D52XW125WQL7	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in × 18 in (457 mm × 457 mm)	30461681	3,342
D52XW50WTX7	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30461682	3,682
D52XW125WTX7	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461683	3,682
D52XW250WTX7	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461684	3,682
D52XW50WQV8	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30461685	4,266
D52XW125WQV8	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30461686	4,321
D52XW250WQV8	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30461687	4,429
D52XW500WQV8	1,000 lb (500 kg)	0.02 lb (20 g)	0.2 lb (100 g)	24 in × 24 in (610 mm × 610 mm)	30461688	4,429

Accessories on next page



DEFENDER™ 5000 WASHDOWN ACCESSORIES

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Micro SD Card 8G	30303533	81
Wheel Kit, Defender Series	30372146	191
Gland M16 D52	30379716	32
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
In-Use-Cover, TD52XW	30424023	40
Holder Kit Printer SST	30424025	89
Wall Mount Kit, SST, TD52XW	30424026	121
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238

Accessories	Item Number	List Price (USD)
Rechargeable battery Li-ion TD52	30424405	285
USB Host Interface for Dongle TD52	30424406	201
Cable Extension 9m/27 ft D52 / D61	30424409	238
Ethernet kit Defender Series	30429666	238
In-Use-Cover, Set(10), TD52XW	30469949	314
USB host interface for flash drive	30572923	191
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 XW Indicators	80500552	256
Software, Winwedge	80850080	759

DEFENDER™ 5000 WASHDOWN LOW PROFILE

Multifunctional Stainless Steel Washdown Bench Scale for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), USB Host, second RS232/RS485/USD device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 stainless steel load cell (single range), non-slip adjustable rubber feet

Design Features

Resolution up to 12,500d, 150% overload capacity, checkweighing display and beep, menu lock switch, selectable display languages, selectable filter, stability indicator, overload/underload indicators, selectable display controls, auto print and tare

Operation

Internal power supply with power cord (included) or rechargeable battery (option)



EasyConnect™



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durably constructed of a stainless steel platform, frame & IP68 indicator; IP67 stainless steel loadcell (NTEP/MC/OIML/EC Type single range).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52XW2WQS5	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in × 10 in (254 mm × 254 mm)	30461661	2,244
D52XW5WQS5	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in × 10 in (254 mm × 254 mm)	30461662	2,244
D52XW12WQS5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in × 10 in (254 mm × 254 mm)	30461663	2,244
D52XW12WQR5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461664	2,428
D52XW25WQR5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461665	2,428
D52XW50WQR5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30461464	2,428
D52XW25WQL5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in × 18 in (457 mm × 457 mm)	30461465	3,066
D52XW50WQL5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30461466	3,066
D52XW125WQL5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in × 18 in (457 mm × 457 mm)	30461467	3,066
D52XW50WTX5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30461668	3,585
D52XW125WTX5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461669	3,585
D52XW250WTX5	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461670	3,585
D52XW50WQV5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30461671	4,104
D52XW125WQV5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30461672	4,104

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Micro SD Card 8G	30303533	81
Wheel Kit, Defender Series	30372146	191
Gland M16 D52	30379716	32

Accessories continued on next page

Accessories	Item Number	List Price (USD)
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
In-Use-Cover, TD52XW	30424023	40
Holder Kit Printer SST	30424025	89
Wall Mount Kit, SST, TD52XW	30424026	121



DEFENDER™ 5000 WASHDOWN LOW PROFILE ACCESSORIES

Accessories	Item Number	List Price (USD)
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238
Rechargeable battery Li-ion TD52	30424405	285
USB Host Interface for Dongle TD52	30424406	201
Cable Extension 9m/27 ft D52 / D61	30424409	238
Ethernet kit Defender Series	30429666	238

Accessories	Item Number	List Price (USD)
In-Use-Cover, Set(10), TD52XW	30469949	314
USB host interface for flash drive	30572923	191
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 XW Indicators	80500552	256

DEFENDER™ 5000

Multifunctional Bench Scale for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), USB Host, second RS232/RS485/USD device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic (TD52P) or stainless steel (TD52XW) indicator, 304-grade stainless steel platform with sand gray powder-coated steel frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to 25,000d, 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim display, auto-off, brightness adjustment, screensaver, auto tare

Operation

Internal power supply with power cord (included) or rechargeable battery (option)



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52XW12RQR1	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	12 in × 12 in (305 mm × 305 mm)	30461689	2,244
D52XW25RQR1	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461690	2,244
D52XW50RQR1	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30461691	2,244
D52XW12RTR1	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	14 in × 12 in (355 mm × 305 mm)	30461692	2,244
D52XW25RTR1	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30461693	2,244
D52XW50RTR1	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30461694	2,244
D52XW50RQL2	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30461695	2,693
D52XW125RQL2	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	18 in × 18 in (457 mm × 457 mm)	30461696	2,693
D52XW50RTX2	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30461697	2,839
D52XW125RTX2	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 18 in (610 mm × 457 mm)	30461698	2,839
D52XW250RTX2	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461699	2,839
D52XW50RQV3	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30461700	3,066
D52XW125RQV3	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 24 in (610 mm × 610 mm)	30461701	3,066
D52XW250RQV3	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30461702	3,066
D52XW500RQV3	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	24 in × 24 in (610 mm × 610 mm)	30461703	3,066
D52XW125RTV3	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30461704	3,813
D52XW250RTV3	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30461705	3,813
D52XW500RTV3	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30461706	3,813
D52P12RQR1	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	12 in × 12 in (305 mm × 305 mm)	30461630	2,012
D52P25RQR1	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461631	2,012

Continued on next page



DEFENDER™ 5000

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52P50RQR1	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in x 12 in (305 mm x 305 mm)	30461632	2,012
D52P12RTR1	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	14 in x 12 in (355 mm x 305 mm)	30461633	2,012
D52P25RTR1	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	14 in x 12 in (355 mm x 305 mm)	30461634	2,012
D52P50RTR1	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	14 in x 12 in (355 mm x 305 mm)	30461635	2,012
D52P50RQL2	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in x 18 in (457 mm x 457 mm)	30461636	2,455
D52P125RQL2	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	18 in x 18 in (457 mm x 457 mm)	30461637	2,455
D52P50RTX2	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in x 18 in (610 mm x 457 mm)	30461638	2,590
D52P125RTX2	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in x 18 in (610 mm x 457 mm)	30461639	2,590
D52P250RTX2	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in x 18 in (610 mm x 457 mm)	30461640	2,590
D52P50RQV3	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in x 24 in (610 mm x 610 mm)	30461641	2,975
D52P125RQV3	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in x 24 in (610 mm x 610 mm)	30461642	2,975
D52P250RQV3	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in x 24 in (610 mm x 610 mm)	30461643	2,975
D52P500RQV3	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	24 in x 24 in (610 mm x 610 mm)	30461644	2,975
D52P125RTV3	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	31.5 in x 23.6 in (800 mm x 600 mm)	30461645	3,564
D52P250RTV3	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	31.5 in x 23.6 in (800 mm x 600 mm)	30461646	3,564
D52P500RTV3	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	31.5 in x 23.6 in (800 mm x 600 mm)	30461647	3,564

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Cable, RS232, 1.5m, R71 to balance	30057595	72	Rechargeable battery Li-ion TD52	30424405	285
Printer, Impact, SF40A, AM	30064203	1,409	USB Host Interface for Dongle TD52	30424406	201
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221	Cable Extension 9m/27 ft D52 / D61	30424409	238
Micro SD Card 8G	30303533	81	Ethernet kit Defender Series	30429666	238
Wheel Kit, Defender Series	30372146	191	In-Use-Cover, Set(10), TD52P	30469948	238
Gland M16 D52	30379716	32	In-Use-Cover, Set(10), TD52XW	30469949	314
Wireless Dongle MTICWD-200	30412537	328	Auxiliary display AD7-RS	30472064	104
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275	USB host interface for flash drive	30572923	191
In-Use-Cover, TD52P	30424022	32	Datalogic Barcode Scanner QD2131	30593703	272
In-Use-Cover, TD52XW	30424023	40	Zebra Label Printer ZD421T with RS232	30928908	973
Holder Kit Printer SST	30424025	89	Printer, Thermal, STP-103, US	80251992	1,087
Wall Mount Kit, SST, TD52XW	30424026	121	Cable RS232 IBM 9P Male-to-Female	80500525	275
Wall Mount Kit, CS, TD52P	30424027	89	Cable RS232 XW Indicators	80500552	256
Analog Output Kit, TD52 DT61XW	30424403	238	Software, Winwedge	80850080	759
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238			

DEFENDER™ 5000 LOW PROFILE - METAL INDICATOR

Multifunctional Bench Scale for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), USB Host, second RS232/RS485/USD device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

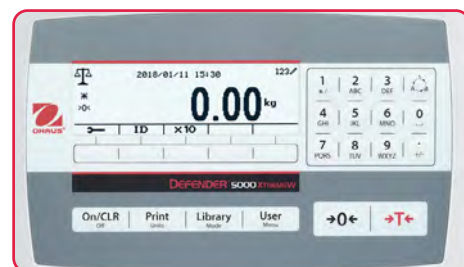
ABS plastic (TD52P) or stainless steel (TD52XW) indicator, 304-grade stainless steel platform with sand gray powder-coated steel frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to 25,000d, 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52XW12RQR5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	12 in × 12 in (305 mm × 305 mm)	30467608	2,130
D52XW25RQR5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30467609	2,130
D52XW50RQR5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30467610	2,130
D52XW12RTR5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	14 in × 12 in (355 mm × 305 mm)	30467611	2,211
D52XW25RTR5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30467612	2,211
D52XW50RTR5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30467613	2,211
D52XW50RQL5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30467614	2,542
D52XW125RQL5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	18 in × 18 in (457 mm × 457 mm)	30467615	2,542
D52XW50RTX5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30467616	2,693
D52XW125RTX5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 18 in (610 mm × 457 mm)	30467617	2,693
D52XW250RTX5	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30467618	2,693
D52XW50RQV5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30467619	2,834
D52XW125RQV5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 24 in (610 mm × 610 mm)	30467620	2,834
D52XW250RQV5	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30470990	2,834
D52XW125RTV5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30467621	3,358

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DEFENDER™ 5000 LOW PROFILE ACCESSORIES

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Micro SD Card 8G	30303533	81
Wheel Kit, Defender Series	30372146	191
Gland M16 D52	30379716	32
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
In-Use-Cover, TD52XW	30424023	40
Holder Kit Printer SST	30424025	89
Wall Mount Kit, SST, TD52XW	30424026	121
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238

Accessories	Item Number	List Price (USD)
Rechargeable battery Li-ion TD52	30424405	285
USB Host Interface for Dongle TD52	30424406	201
Cable Extension 9m/27 ft D52 / D61	30424409	238
Ethernet kit Defender Series	30429666	238
In-Use-Cover, Set(10), TD52XW	30469949	314
Auxiliary display AD7-RS	30472064	104
USB host interface for flash drive	30572923	191
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 XW Indicators	80500552	256
Software, Winwedge	80850080	759

DEFENDER™ 5000 LOW PROFILE - PLASTIC INDICATOR

Multifunctional Bench Scale for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), USB Host, second RS232/RS485/USD device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic (TD52P) or stainless steel (TD52XW) indicator, 304-grade stainless steel platform with sand gray powder-coated steel frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to 25,000d, 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets NTEP/ Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D52P12RQR5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	12 in × 12 in (305 mm × 305 mm)	30461648	1,854
D52P25RQR5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30461649	1,854
D52P50RQR5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30461650	1,854
D52P12RTR5	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	14 in × 12 in (355 mm × 305 mm)	30461651	1,931
D52P25RTR5	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30461652	1,931
D52P50RTR5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30461653	1,931
D52P50RQL5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30461654	2,271
D52P125RQL5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	18 in × 18 in (457 mm × 457 mm)	30461655	2,271
D52P50RTX5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30461656	2,374
D52P125RTX5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 18 in (610 mm × 457 mm)	30461657	2,374
D52P250RTX5	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30461658	2,374
D52P50RQV5	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30461659	2,536
D52P125RQV5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 24 in (610 mm × 610 mm)	30461660	2,536
D52P250RQV5	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30467606	2,536
D52P125RTV5	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30467607	3,347

Accessories on next page



DEFENDER™ 5000 LOW PROFILE ACCESSORIES

Accessories	Item Number	List Price (USD)
Cable, RS232, 1.5m, R71 to balance	30057595	72
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Micro SD Card 8G	30303533	81
Wheel Kit, Defender Series	30372146	191
Gland M16 D52	30379716	32
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
In-Use-Cover, TD52P	30424022	32
Holder Kit Printer SST	30424025	89
Wall Mount Kit, CS, TD52P	30424027	89
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238

Accessories	Item Number	List Price (USD)
Rechargeable battery Li-ion TD52	30424405	285
USB Host Interface for Dongle TD52	30424406	201
Cable Extension 9m/27 ft D52 / D61	30424409	238
Ethernet kit Defender Series	30429666	238
In-Use-Cover, Set(10), TD52P	30469948	238
Auxiliary display AD7-RS	30472064	104
USB host interface for flash drive	30572923	191
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 IBM 9P Male-to-Female	80500525	275
Software, Winwedge	80850080	759

DEFENDER™ 3000 WASHDOWN - i-D33

Stainless Steel Bench Scales for Basic Industrial Washdown Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

304-grade stainless steel platform and frame, stainless steel IP66 indicator, IP67 load cell, non-slip adjustable rubber feet

Design Features

150% overload protection

Operation

Internal power supply with power cord (included) or rechargeable battery (included)



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode, the display changes color (yellow/green/red) to alert when it is within the target weight range.

This tough industrial scale features a 304-stainless steel platform and frame, IP67 load cell. Indicator features an IP66 washdown protected 304-stainless steel housing with mounting bracket.

Features software for Parts Counting, Checkweighing, and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Model	Maximum Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D33XW15C1R6	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in x 12 in (355 mm x 305 mm)	30685180	1,941
D33XW15C1R5*	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in x 12 in (355 mm x 305 mm)	30685209	1,866
D33XW30C1R6	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in x 12 in (355 mm x 305 mm)	30685181	1,941
D33XW30C1R5*	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in x 12 in (355 mm x 305 mm)	30685210	1,893
D33XW75C1R6	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in x 12 in (355 mm x 305 mm)	30685182	1,941
D33XW75C1R5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in x 12 in (355 mm x 305 mm)	30685211	1,893
D33XW75C1L7	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in x 16.5 in (550 mm x 420 mm)	30685191	2,190
D33XW75C1L5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in x 16.5 in (550 mm x 420 mm)	30685216	2,136
D33XW150C1L7	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in x 16.5 in (550 mm x 420 mm)	30685192	2,190
D33XW150C1L5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in x 16.5 in (550 mm x 420 mm)	30685217	2,136
D33XW150C1X7	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in x 19.7 in (650 mm x 500 mm)	30685197	2,699
D33XW150C1X5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in x 19.7 in (650 mm x 500 mm)	30685222	2,650
D33XW300C1X7	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in x 19.7 in (650 mm x 500 mm)	30685198	2,699
D33XW300C1X5*	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in x 19.7 in (650 mm x 500 mm)	30685223	2,650

* Models ending in 5 have a Front Mount indicator

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Wheel Kit SST Defender Series	30616409	238
Wheel Kit, Defender Series	30372146	191	USB Device Interface Kit i-DT33	30699120	133
Ethernet kit Defender Series	30429666	238	Dust Cover Set(5) i-DT33	30699121	67
Zebra Label Printer ZD421T with RS232	30928908	973	Cable RS232 XW Indicators	80500552	256



DEFENDER™ 3000 HYBRID - ID33

Bench Scales for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

Stainless steel indicator, 304-stainless steel platform, powder-coated steel tubular frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection

Operation

Internal power supply with power cord (included) or rechargeable battery (included)



Results are clearly shown using the large bright backlit LCD display. Display changes color (yellow/green/red) in Checkweighing mode to alert when within the target weight range.

This industrial scale features a 304 stainless steel platform, powder-coated steel tubular frame, and aluminum load cell. Indicator features a stainless steel housing and mounting bracket.

Features software for Parts Counting, Checkweighing, and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Model	Maximum Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D33XW15B1R1	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30685177	1,190
D33XW15B1R5*	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30685206	1,136
D33XW30B1R1	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30685178	1,190
D33XW30B1R5*	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30685207	1,136
D33XW75B1R1	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30685179	1,190
D33XW75B1R5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30685208	1,136
D33XW75B1L2	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685185	1,401
D33XW75B1L5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685214	1,352
D33XW150B1L2	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685190	1,401
D33XW150B1L5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685215	1,352
D33XW150B1X2	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685195	1,509
D33XW150B1X5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685220	1,461
D33XW300B1X2	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685196	1,509
D33XW300B1X5*	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685221	1,461
D33XW300B1V3	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30685201	1,617
D33XW600B1V3	1,200 lb (600 kg)	0.2 lb (100 g)	0.5 lb (200 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30685202	1,617

* Models ending in 5 have a Front Mount indicator

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Wheel Kit SST Defender Series	30616409	238
Wheel Kit, Defender Series	30372146	191	USB Device Interface Kit i-DT33	30699120	133
Ethernet kit Defender Series	30429666	238	Dust Cover Set(5) i-DT33	30699121	67
Zebra Label Printer ZD421T with RS232	30928908	973	Cable RS232 XW Indicators	80500552	256



Check Weighing



Parts Counting



Totalization



Weighing



Auto Shut-Off



Backlight



Environmental Filters



LED Check Weighing Indicator



Level Indicator



Leveling Feet



Low Battery Indicator



Overload Protection



Overload/Underload Indicators



Rechargeable Battery



Software Lockout



Measurement Canada Approved



NTEP Certified

DEFENDER™ 3000 - ID33

Bench Scales for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS plastic indicator, 304-stainless steel platform, powder-coated steel tubular frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection

Operation

Internal power supply with power cord (included), 6C (LR14) Batteries (not included) or Rechargeable Battery (option)



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode, the display changes color (yellow/green/red) to alert when it is within the target weight range.

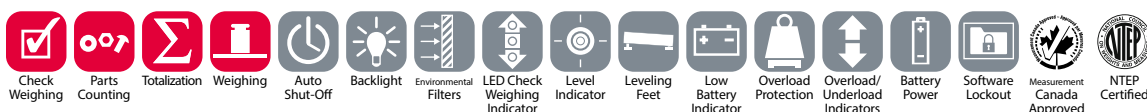
This tough industrial scale features a 304-stainless steel platform, powder-coated steel tubular frame, and aluminum load cell. Indicator features a durable ABS housing and steel mounting bracket.

Features software for Parts Counting, Checkweighing, and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Model	Maximum Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D33P15B1R1	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30685174	1,066
D33P15B1R5*	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30685203	908
D33P30B1R1	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30685175	1,066
D33P30B1R5*	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30685204	908
D33P75B1R1	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30685176	1,066
D33P75B1R5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30685205	908
D33P75B1L2	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685183	1,293
D33P75B1L5*	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685212	1,049
D33P150B1L2	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685184	1,293
D33P150B1L5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30685213	1,049
D33P150B1X2	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685193	1,401
D33P150B1X5*	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685218	1,352
D33P300B1X2	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685194	1,401
D33P300B1X5*	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30685219	1,352
D33P300B1V3	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30685199	1,509
D33P600B1V3	1,200 lb (600 kg)	0.2 lb (100 g)	0.5 lb (200 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30685200	1,509

* Models ending in 5 have a Front Mount indicator

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	USB Device Interface Kit i-DT33	30699120	133
Wheel Kit, Defender Series	30372146	191	Dust Cover Set(5) i-DT33	30699121	67
Ethernet kit Defender Series	30429666	238	Rechargeable battery Kit i-DT33P	30699122	67
Zebra Label Printer ZD421T with RS232	30928908	973	Cable RS232 IBM 9P Male-to-Female	80500525	275
Wheel Kit SST Defender Series	30616409	238			



DEFENDER™ 3000 FIELD TEST

Portable Precision Ready for the Field

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS plastic indicator and case, powder-coated steel base

Design Features

Flexible coiled cable (extendable up to 9 ft.), 125% overload protection, selectable span calibration points, auto-zero tracking, battery-saving auto-off, Geo Code geographical gravity calibration adjustment, and software menu lockouts.

Operation

Internal power supply with power cord (included), 6C (LR14) batteries (not included) or rechargeable battery (optional)



A capacity of 150 lb with a readability of 0.05 lb and the powder-coated steel base in a case means that the Digital Field Test Scale provides precise, clear measurements, no matter where you're working.

The Field Test Scale comes packaged in a durable plastic carrying case with latches and carrying handle, ensuring maximum portability for use anywhere on the job—without limiting you to the lab.

The backlit LCD display allows for easy reading of results, even in low-light conditions. Can be powered using "C" cell batteries for up to 150 hours—optional internal rechargeable battery available.

Model	Capacity	Readability	Platform Size	Item Number	List Price (USD)
D33P75SD	150 lb (75 kg)	0.05 lb (0.02 kg)	12.44 in × 11 in (316 mm × 280 mm)	30728938	487

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Dust Cover Set(5) i-DT33	30699121	67
Ethernet kit Defender Series	30429666	238	Rechargeable battery Kit i-DT33P	30699122	67
Zebra Label Printer ZD421T with RS232	30928908	973	Cable RS232 IBM 9P Male-to-Female	80500525	275
USB Device Interface Kit i-DT33	30699120	133	DB9 Adapter, Male-to-Male	30692384	9



COURIER™ 7000

Precise Standard Scales for Dedicated Shipping Applications

Display

6-digit, 7-segment LCD display with white backlight, 1.1 in./28 mm-high digits

Communication

Easy access communication ports including standard RS232 and USB type C Ethernet or 2nd RS232 or WiFi/Bluetooth (available as accessories sold separately)

Construction

ABS indicator, 304-stainless steel platform, powder-coated frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection

Operation

Standard AC adapter with USB type C cable detachable (included) or 4 AA batteries (not included)



Designed to withstand constant use from offices to distribution centers. Fast setup with connection to shipping systems like UPS and FedEx. "GeoCode" application for local calibration adjustment.

Display Hold retains weight data and presents it on a large, easily accessible backlit display. Its Weight Alert mode alerts users to packages that may be too heavy in relation to defined values.

Courier 7000 can run on USB type-C or disposable battery power. Optional Ethernet, second RS232, Bluetooth/WiFi, remote display, ball top and roller top for material handling efficiency are available.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
i-C71M15R	30 lb / 15kg	0.01 lb / 0.005 kg	0.01 lb / 0.005 kg	12 x 14 in / 305 x 355 mm platform	30745875	676
i-C71M75R	150 lb / 75 kg	0.05 lb / 0.02 kg	0.05 lb / 0.05 kg	12 x 14 in / 305 x 355 mm platform	30745876	676
i-C71M50L	100 lb / 50 kg	0.02 lb / 0.01 kg	0.02 lb / 0.01 kg	18 x 18 in / 457 x 457 mm	30745877	1,097
i-C71M125L	250 lb / 125 kg	0.05 lb / 0.02 kg	0.05 lb / 0.05 kg	18 x 18 in / 457 x 457 mm	30745878	1,097
i-C71M125X	250 lb / 125 kg	0.05 lb / 0.02 kg	0.05 lb / 0.05 kg	24 x 24 in / 610 x 610 mm	30745879	1,293

Accessories	Item Number	List Price (USD)
2nd RS232 Kit for Courier 7000	30745880	130
Ethernet Kit for Courier 7000	30745882	232
Wifi-BT Kit for Courier 7000 (USB Host + Dongle)	30745881	515
Auxiliary display AD7-MD for Courier 7000	30472063	188
Remote Column Kit for Courier 7000 or 5000, Painted Steel 13 in / 330 mm	30800931	81
Ball Top for Courier 7000 12 x 14 in / 305 x 355 mm	30819625	189

Accessories	Item Number	List Price (USD)
Ball Top for Courier 7000 18 x 18 in / 458 x 458 mm	30819627	276
Ball Top for Courier 7000 24 x 24 in / 611 x 611 mm	30819648	384
Roller Top for Courier 7000 12x14 in / 305 x 355 mm	30819626	271
Roller Top for Courier 7000 18 x 18 in / 458 x 458 mm	30819649	309
Roller Top for Courier 7000 24 x 24 in / 611 x 611 mm	30819650	513
Thermal Printer STP-103	80251992	1,087



COURIER™ 5000

Low-Profile Scales Ideal for General Shipping and Animal Weighing Applications

Display

6-digit, 7-segment LCD display with white backlight, 1.1 in./28 mm-high digits

Communication

Standard USB type C

Construction

ABS indicator, 304 stainless steel platform, powder-coated frame

Design Features

150% overload protection

Operation

Standard AC adapter or USB type C cable (included) or 3 AA Batteries (not included)



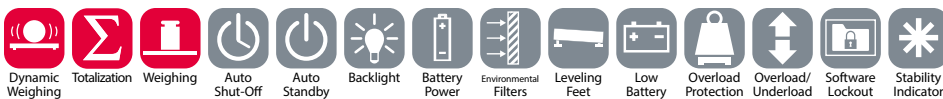
Easy-to-use scales for general shipping use with painted steel base. Stainless steel pan holds up to daily use and is easy to keep sanitary. Adjustable display for mounting to adapt to your workspace.

The Dynamic Weighing/Display Hold application is ideal for large boxes and packages as it retains weight data on the display. It's also ideal for animals in veterinary applications.

AC adapter power included. Simple USB type C for data and power connection – includes UPS software protocol string. Can also run using disposable battery power.

Model	Capacity	Readability	Platform Size	Item Number	List Price (USD)
i-C52M6R	12 lb / 6 kg	0.005 lb / 0.002 kg	12.6 × 13 in / 319 × 329 mm	30745897	319
i-C52M15R	30lb / 15kg	0.01 lb / 0.005 kg	12.6 × 13 in / 319 × 329 mm	30951011	310
i-C52M30R	60 lb / 30 kg	0.02 lb / 0.01 kg	12.6 × 13 in / 319 × 329 mm	30745898	319
i-C52M50R	100 lb / 50 kg	0.05 lb / 0.02 kg	12.6 × 13 in / 319 × 329 mm	30745796	319
i-C52M50L	100 lb / 50 kg	0.05 lb / 0.02 kg	15.7 × 20.5 in / 400 × 520 mm	30745797	379
i-C52M100L	200 lb / 100 kg	0.1 lb / 0.05 kg	15.7 × 20.5 in / 400 × 520 mm	30745948	379
i-C52M200L	400 lb / 200 kg	0.2 lb / 0.1 kg	15.7 × 20.5 in / 400 × 520 mm	30745949	379
i-C52M200X	400 lb / 200 kg	0.2 lb / 0.1 kg	23.6 × 35.4 in / 600 × 900 mm	30745950	595

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Remote Column Kit for 5000, Painted Steel 13 in / 330 mm	30800931	81	Cable base indicator 29 ft / 9m	30809920	27
Remote Column Kit for 5000, Painted Steel 38.6 in / 980 mm	30795819	156	Rubber Mat Kit Antiskid 23.6 × 35.4 in / 600 × 900 mm	30548975	81



COURIER™ 3000

User-Friendly Basic Low-Profile Scales for General Shipping and Veterinary Applications

Display

6-digit, 7-segment LCD display with white backlight, 1.1 in./28 mm-high digits

Construction

ABS indicator, powder-coated steel platform and frame

Design Features

150% overload protection

Operation

AC Adapter (included) or 3 AA Batteries (not included)



Ideal for general shipping jobs or veterinary applications. Low-profile design with 1.5 mm-thick painted steel platform to withstand rigorous daily use. Coiled cable ensures flexible display mounting.

The Courier 3000's Display Hold key (for use with large boxes and packages) retains weight on the large 1.1 in./28 mm-high backlit display until cleared.

AC adapter power included and disposable battery power (not included) for portable use.

Model	Capacity	Readability	Platform Size	Item Number	List Price (USD)
i-C31M35R	70 lb / 35 kg	0.05 lb / 0.02 kg	12.6 × 13 in / 319 × 329 mm	30809866	189
i-C31M75R	150 lb / 75 kg	0.1 lb / 0.05 kg	12.6 × 13 in / 319 × 329 mm	30809867	189
i-C31M200R	400 lb / 200 kg	0.2 lb / 0.1 kg	12.6 × 13 in / 319 × 329 mm	30809908	189
i-C31M75L	150 lb / 75 kg	0.1 lb / 0.05 kg	15.7 × 20.5 in / 400 × 520 mm	30809909	319
i-C31M200L	400 lb / 200 kg	0.2 lb / 0.1 kg	15.7 × 20.5 in / 400 × 520 mm	30809910	319

Accessories	Item Number	List Price (USD)
Cable base indicator 29 ft / 9m	30809920	27



COURIER™ 1000

Compact Portable Shipping Scales for General Shipping Applications

Display

4-digit, 7-Segment LCD, 0.8 in./20 mm-high digits

Construction

ABS housing and platform, stainless steel platform (accessory sold separately), transportation handles

Design Features

150% overload protection

Operation

AC adapter (included) or 3 C (LR14) batteries (not included)

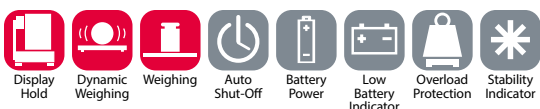


Its ultra-compact ABS plastic design combines light weight and durability. Courier scales are exceptionally easy to transport thanks to their integrated handles.

Large 0.8 inch/20 mm-high display works with Dynamic Weighing mode to store data and ensure it is easily accessible when weighing packages. It is also ideal for weighing small animals in veterinary use.

Battery powered (batteries not included) for use in the office or shop. AC adapter power included.

Model	Capacity	Readability	Platform Size	Item Number	List Price (USD)
i-C12P9	20 lb / 9 kg	0.01 lb / 0.005 kg	11 × 12.4 in / 280 × 316 mm	30820355	201
i-C12P20	44 lb / 20 kg	0.02 lb / 0.01 kg	11 × 12.4 in / 280 × 316 mm	30820356	201
i-C12P75	165 lb / 75 kg	0.1 lb / 0.05 kg	11 × 12.4 in / 280 × 316 mm	30820357	201
Accessories		Item Number	List Price (USD)		
Pan, SST, C11P		80251248	79		



RANGER™ COUNT 4000

Top-of-the-Line Counting Scales for Even the Toughest Industrial Weighing Conditions

Display

3 window backlit liquid crystal display (LCD), 3 color checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged Cast Aluminum Housing, Stainless Steel Platform

Design Features

Cast Aluminum Housing, stainless steel platform, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare, rechargeable battery with 100 hours between charges.

Operation

AC power (included) or rechargeable battery (included)



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

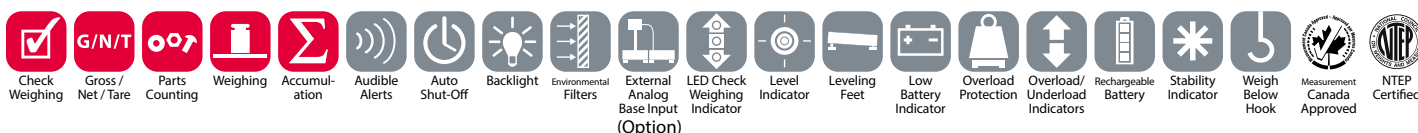
Accurate weighing and counting performance is assured with 1:1,500,000 internal counting resolution and auto-optimization software that reduces errors.

Easy-to-operate with SmarText™ software, a centrally located count display and dedicated Sample and Tare keys.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
RC41M3	6 lb (3 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30236779	1,401
RC41M6	15 lb (6 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30236940	1,401
RC41M15	30 lb (15 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30236941	1,401
RC41M30	60 lb (30 kg)	0.002 lb (1 g)	0.02 lb (10 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30236942	1,401

Accessories	Item Number	List Price (USD)
PCBA Kit 2nd Platform RC31 R41 RC41	30037446	221
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221
USB Kit R31 RC31 R41 RC41 V71	30037449	221
Printer, Impact, SF40A, AM	30064203	1,409
In Use Cover R41 RC41 5PCS	30656205	51

Accessories	Item Number	List Price (USD)
Auxiliary display AD7-RS	30472064	104
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 IBM 9P Male-to-Female	80500525	275
Software, Winwedge	80850080	759
Carrying Case	30795772	173



RANGER™ COUNT 3000

Reliable Counting Scales to Ensure Accurate Results

Display

3 window backlit liquid crystal display (LCD), 3 color checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

ABS housing, stainless steel platform, numeric keypad, menu lock switch, up front level indicator, transportation handle

Design Features

30 item library, 210 hours of battery life, 3 LED checkweighing lights with selectable operation and audible signal settings, auto tare, selectable environmental and auto-print settings, auto shut-off, optional 2nd scale input

Operation

AC power (included) or rechargeable battery (included)



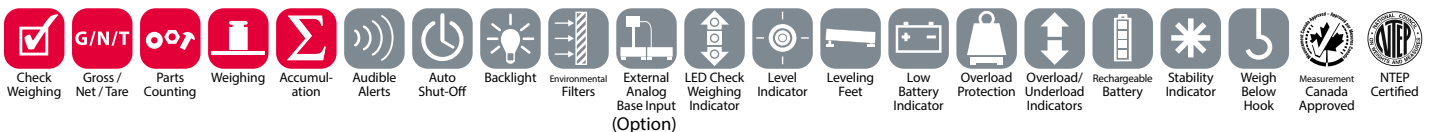
Accurate weighing and counting are assured with high-resolution, 30-item library function, and auto-optimization software that reduces errors.

Easy to use in multi-step counting operations. Counting performance is assured with 1:1,500,000 internal counting resolution and auto-optimization software that reduces errors.

Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
RC31P1502	3 lb (1.5 kg)	0.0001 lb (0.05 g)	0.001 lb (0.5 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031787	1,162
RC31P3	6 lb (3 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031788	1,162
RC31P6	15 lb (6 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031789	1,162
RC31P15	30 lb (15 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031790	1,162
RC31P30	60 lb (30 kg)	0.002 lb (1 g)	0.02 lb (10 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031791	1,162

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
PCBA Kit 2nd Platform RC31 R41 RC41	30037446	221	Printer, Impact, SF40A, AM	30064203	1,409
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221	Printer, Thermal, STP-103, US	80251992	1,087
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221	Cable RS232 IBM 9P Male-to-Female	80500525	275
USB Kit R31 RC31 R41 RC41 V71	30037449	221	Software, Winwedge	80850080	759
Hook R21 RC21 RC31 RC41 V71	30037450	158	Carrying Case	30795772	173
In Use Cover R21 RC21 R31 RC31 5PCS	30656204	51			



RANGER™ 7000

Top-of-the-Line Compact Scales for Even the Most Complex Industrial Applications

Display

4.3" (109 mm) Full-color WQVGA graphic display with user-controlled brightness

Communication

Easy access communication port including standard USB and RS232 (included) and an optional third port of RS232 or Ethernet or Discrete IO (accessories sold separately). GLP/GMP Data Output with Real Time Clock. Data Transfer Function.

Construction

Modular design, die-cast housing, removable stainless steel platform, integral weigh below hook, menu lock switch, level indicator

Design Features

Checkweighing lights with selectable operation and audible signal settings, several selectable operating languages, selectable environmental and autoprnt settings, stability indicator, overload/underload indicators, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare

Operation

AC power (included) or rechargeable battery (accessory sold separately)



Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.

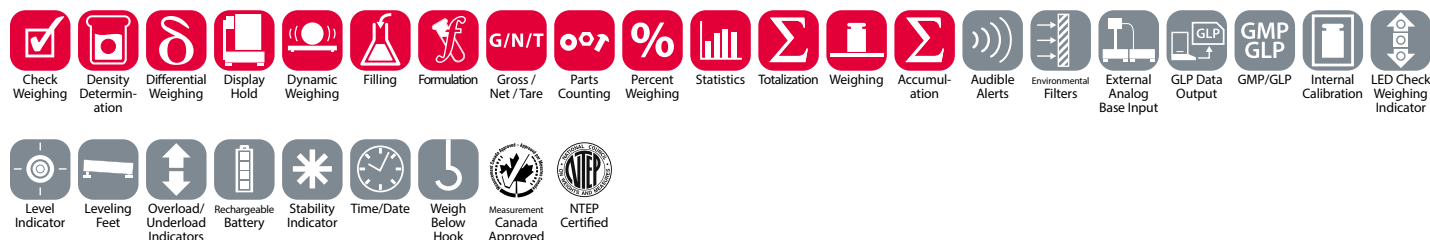
The most precise scale in its class with one-second stabilization time, up to 75,000d or 350,000d display resolution and legal-for-trade certifications.

Extremely durable scale designed to thrive in rugged industrial environments. Features IP54-rated metal housing and sealed metal terminal.

Model	InCal™	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
R71MD3	-	6 lb (3 kg)	0.0001 lb (0.05 g)	0.001 lb (0.5 g)	11 in x 11 in (280 mm x 280 mm)	30070289	2,655
R71MD6	-	15 lb (6 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	11 in x 11 in (280 mm x 280 mm)	30070310	2,655
R71MD15	-	30 lb (15 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	12.2 in x 14.8 in (311 mm x 377 mm)	30070311	2,655
R71MD35	-	70 lb (35 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	12.2 in x 14.8 in (311 mm x 377 mm)	30070312	2,655
R71MD60	-	150 lb (60 kg)	0.002 lb (1 g)	0.02 lb (10 g)	12.2 in x 14.8 in (311 mm x 377 mm)	30212873	2,655
R71MHD3	•	6 lb (3 kg)	0.00002 lb (0.01 g)	0.0002 lb (0.1 g)	8.3 in x 8.3 in (210 mm x 210 mm)	30088840	2,738
R71MHD6	•	15 lb (6 kg)	0.00005 lb (0.02 g)	0.0005 lb (0.2 g)	8.3 in x 8.3 in (210 mm x 210 mm)	30088841	3,041
R71MHD15	•	30 lb (15 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	12.2 in x 14.8 in (311 mm x 377 mm)	30088842	4,022
R71MHD35	•	70 lb (35 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	12.2 in x 14.8 in (311 mm x 377 mm)	30088843	4,847

Accessories	Item Number	List Price (USD)
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221
BATTERY,pack,Li-ion,R,14.8V,2600mAh	30041295	549
Cable, RS232, 1.5m, R71 to balance	30057595	72
Printer, Impact, SF40A, AM	30064203	1,409
Column Kit, Painted, R71	30095408	221
PCBA Kit, 2nd Platform, R71	30097590	222
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Cable, Extension, 9m, R71	30101495	156

Accessories	Item Number	List Price (USD)
Accessory, In Use Cover, R71	30135320	67
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
PCBA Kit, Alibi Memory, R71 T71	80500503	175
Cable RS232 IBM 9P Male-to-Female	80500525	275
Software, Winwedge	80850080	759
Auxiliary display AD7-RS	30472064	104



RANGER™ 4000

Durable Compact Scales for the Toughest Industrial Weighing Environments

Display

Light-emitting diode display (LED), 3 color checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged Cast Aluminum Housing, Stainless Steel Platform

Design Features

Cast Aluminum Housing, stainless steel platform, integral weigh-below hook, sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare

Operation

AC power (included) or rechargeable battery (included)



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

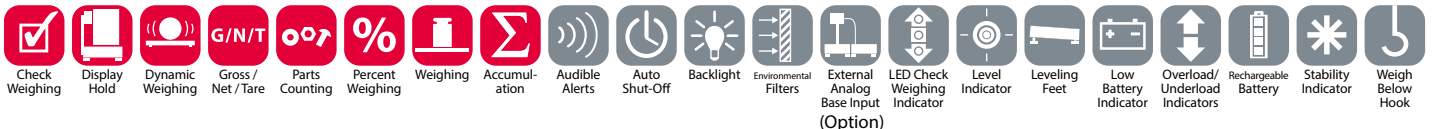
The most user-friendly scale on the market features Smart Text™ for easy operation and setup to ensure efficiency in the workplace. Includes rechargeable battery with 100 hours between charges.

With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 4000 can function in almost any industrial environment.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
R41ME3	6 lb (3 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30236775	1,330
R41ME6	15 lb (6 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30236776	1,330
R41ME15	30 lb (15 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30236777	1,330
R41ME30	60 lb (30 kg)	0.002 lb (1 g)	0.02 lb (10 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30236778	1,330

Accessories	Item Number	List Price (USD)
PCBA Kit 2nd Platform RC31 R41 RC41	30037446	221
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221
USB Kit R31 RC31 R41 RC41 V71	30037449	221
Printer, Impact, SF40A, AM	30064203	1,409
In Use Cover R41 RC41 5PCS	30656205	51

Accessories	Item Number	List Price (USD)
Auxiliary display AD7-RS	30472064	104
Printer, Thermal, STP-103, US	80251992	1,087
Cable RS232 IBM 9P Male-to-Female	80500525	275
Software, Winwedge	80850080	759
Carrying Case	30795772	173



RANGER™ 3000

Multi-Purpose Compact Bench Scales for Industrial Weighing Applications

Display

Backlit liquid crystal display (LCD), 3 color checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

ABS housing, stainless steel platform, menu lock switch, up-front level indicator, integral weigh-below hook, transportation handle

Design Features

210 hours of battery life, 3 LED checkweighing lights with selectable operation and audible signal settings, selectable environmental and auto-print settings, auto shut-off, auto tare

Operation

AC power (included) or rechargeable battery (included)



With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 3000 can function in tough industrial environments.

User-friendly scale with easy setup to ensure efficiency in the workplace.

Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
R31P1502	3 lb (1.5 kg)	0.0001 lb (0.05 g)	0.001 lb (0.5 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031707	930
R31P3	6 lb (3 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031708	930
R31P6	15 lb (6 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031709	930
R31P15	30 lb (15 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031710	930
R31P30	60 lb (30 kg)	0.002 lb (1 g)	0.02 lb (10 g)	8.9 in x 11.8 in (225 mm x 300 mm)	30031711	930

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221	Printer, Thermal, STP-103, US	80251992	1,087
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221	Cable RS232 IBM 9P Male-to-Female	80500525	275
USB Kit R31 RC31 R41 RC41 V71	30037449	221	Software, Winwedge	80850080	759
In Use Cover R21 RC21 R31 RC31 5PCS	30656204	51	Carrying Case	30795772	173
Printer, Impact, SF40A, AM	30064203	1,409			



VALOR™ 7000

Improve Productivity & Handle Demanding Applications With This Adaptable Multi-Functional Scale

Display

Dual backlit Liquid Crystal Display (LCD), 3 color checkweigh LEDs

Communication

RS232 (included); USB, Ethernet, or second RS232 (accessories sold separately)

Construction

ABS housing, stainless steel platform, touchless sensor, transportation handle, menu lock switch, up front level indicator

Design Features

210 hours of battery life, 3 LED checkweighing lights with selectable operation and audible signal settings, selectable environmental and auto-print settings, auto shut-off, auto tare

Operation

AC power (included) or rechargeable battery (included)



Food-safe Valor 7000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems -- suitable for food applications in dry areas.

Large displays with backlight allow for easy viewing of results. Easy access communication ports for fast and useful data transfer and storage.

Valor 7000 produces repeatable and accurate results within less than one second to virtually eliminate your wait time and improve productivity.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
V71P1502T	3 lb (1.5 kg)	0.0001 lb (0.05 g)	0.001 lb (0.5 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30031827	972
V71P3T	6 lb (3 kg)	0.0002 lb (0.1 g)	0.002 lb (1 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30031828	972
V71P6T	15 lb (6 kg)	0.0005 lb (0.2 g)	0.005 lb (2 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30031829	972
V71P15T	30 lb (15 kg)	0.001 lb (0.5 g)	0.01 lb (5 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30031830	972
V71P30T	60 lb (30 kg)	0.002 lb (1 g)	0.02 lb (10 g)	8.9 in × 11.8 in (225 mm × 300 mm)	30031831	972

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
In-Use-Cover, V71	30037445	58	Printer, Impact, SF40A, AM	30064203	1,409
Ethernet Kit R31 RC31 R41 RC41 R71 V71	30037447	221	Printer, Thermal, STP-103, US	80251992	1,087
RS232 Kit R31 RC31 R41 RC41 R71 V71	30037448	221	Cable RS232 IBM 9P Male-to-Female	80500525	275
USB Kit R31 RC31 R41 RC41 V71	30037449	221	Software, Winwedge	80850080	759
Hook R21 RC21 RC31 RC41 V71	30037450	158	Carrying Case	30795772	173
In-Use-Cover, Set(10), V71	30037469	112			



VALOR™ 4000

High-Performance, Legal-for-Trade Food Scale Perfect for Harsh, Wet Workplace Conditions

Display

Dual light emitting diode (LED) displays, checkweighing LEDs on XW models

Construction

ABS housing with stainless steel platform (PW), stainless steel housing and platform (XW), illuminated up-front level indicator, rear touchless sensor

Design Features

Auto-close power jack cover, menu and mode setup navigation prompts on keys, transportation handle

Operation

AC adapter (included) or rechargeable battery (included)



Food-safe Valor 4000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems, making it suitable for demanding food processing applications.

Increase productivity with its touchless Tare sensor, half-second stabilization time, checkweighing mode and LEDs, and percent weighing mode.

Unique knife-resistant keypad and IPX8 protection ensures durability and safe operation in wet conditions.

Model	Capacity	Readability	Certified Readability	Top Housing	Platform Size	Item Number	List Price (USD)
V41XWE1501T	3 lb (1.5 kg)	0.0005 lb (0.2 g)	0.001 lb (0.5 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035444	833
V41XWE3T	6 lb (3 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035445	833
V41XWE6T	15 lb (6 kg)	0.002 lb (1 g)	0.005 lb (2 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035446	833
V41XWE15T	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035447	833
V41PWE1501T	3 lb (1.5 kg)	0.0005 lb (0.2 g)	0.001 lb (0.5 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035434	709
V41PWE3T	6 lb (3 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035435	709
V41PWE6T	15 lb (6 kg)	0.002 lb (1 g)	0.005 lb (2 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035436	709
V41PWE15T	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035437	709

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Large Pan, 11.8x8.8 in, 300x225mm V22 V41	30251753	86	In-Use Cover Set 10 V22PW V41PW	30572906	211



VALOR™ 3000

Rugged, Full Stainless Steel Design in a High Performance, Portable Scale

Display

Backlit liquid crystal display (LCD)

Construction

Stainless steel housing and platform, up-front level indicator, load cell lock

Design Features

Selectable environmental settings, auto tare, auto shut-off, selectable power-up unit, optional food accessories

Operation

AC adapter (included) or 4 C (LR14) batteries (not included)



The stainless steel Valor 3000 Xtreme is NSF Certified and supports HACCP-Certified systems helping to ensure the integrity and safety of all food products weighed on the scale.

The compact Valor 3000 Xtreme requires minimal counter space and offers resolutions up to 40,000d and 0.01g, providing precise measurements in demanding environments.

With software for general weighing, percent weighing and specific gravity, the Valor 3000 can be used for a variety of food weighing and measurement needs.

Model	Protection Rating	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
V31XH202	-	0.44 lb (200 g)	0.00005 lb (0.01 g)		4.7 in (120 mm)	83998130	1,076
V31XH402	-	0.88 lb (400 g)	0.00005 lb (0.01 g)		4.7 in (120 mm)	83998178	1,498
V31X501	-	1.1 lb (500 g)	0.0005 lb (0.1 g)		4.7 in (120 mm)	83998176	833
V31XH2	-	4.4 lb (2 kg)	0.0005 lb (0.1 g)		6.2 in x 5.8 in (158 mm x 146 mm)	83998131	1,076
V31XH4	-	8.8 lb (4 kg)	0.0005 lb (0.1 g)		6.2 in x 5.8 in (158 mm x 146 mm)	83998177	1,498
V31X3	-	6.6 lb (3 kg)	0.005 lb (1 g)		6.2 in x 5.8 in (158 mm x 146 mm)	83998132	730
V31X3N	-	6.6 lb (3 kg)	0.002 lb (0.5 g)	0.005 lb (1 g)	6.2 in x 5.8 in (158 mm x 146 mm)	83999992	838
V31X6	-	13.22 lb (6 kg)	0.005 lb (1 g)		6.2 in x 5.8 in (158 mm x 146 mm)	83998133	730
V31X6N	-	13.22 lb (6 kg)	0.005 lb (1 g)	0.005 lb (2 g)	6.2 in x 5.8 in (158 mm x 146 mm)	83999996	838
V31XW301	IP65; NEMA 4X	0.66 lb (300 g)	0.0005 lb (0.1 g)		6.2 in x 5.8 in (158 mm x 146 mm)	83998134	838
V31XW3	IP65; NEMA 4X	6.6 lb (3 kg)	0.002 lb (0.5 g)	0.005 lb (1 g)	6.2 in x 5.8 in (158 mm x 146 mm)	83998135	838
V31XW6	IP65; NEMA 4X	13.22 lb (6 kg)	0.005 lb (1 g)	0.005 lb (2 g)	6.2 in x 5.8 in (158 mm x 146 mm)	83998136	838

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Pan, SST, Sandwich, V31	80251147	123	Holder, SST, Ice Cream Cone, V31	80251149	123
Holder, SST, French Fries, V31	80251148	123	Carrying Case, V31	80251216	188



VALOR™ 2000

High-Performance Food Scale Suitable for Harsh, Wet Workplace Conditions

Display

Dual light emitting diode (LED) displays, checkweighing LEDs on XW models

Construction

ABS housing with stainless steel platform (PW), stainless steel housing and platform (XW), up-front level indicator

Design Features

Auto-close power jack cover, transportation handle

Operation

AC adapter (included) or rechargeable battery (included)



The sturdy polycarbonate keypad offers protection from knives and other sharp instruments used in food preparation, processing and portioning applications.

A unique IPX8 flow-thru design ensures that the NSF-certified Valor 2000 will drain moisture in the scale when used in wet conditions.

Stabilization time is less than a half-second. Large front and rear LED displays allow for easy viewing so two operators can share one scale.

Model	Capacity	Readability	Top Housing	Platform Size	Item Number	List Price (USD)
V22XWE1501T	3 lb (1.5 kg)	0.0005 lb (0.2 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035439	752
V22XWE3T	6 lb (3 kg)	0.001 lb (0.5 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035440	752
V22XWE6T	15 lb (6 kg)	0.002 lb (1 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035441	752
V22XWE15T	30 lb (15 kg)	0.005 lb (2 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30035442	752
V22XWE30T	60 lb (30 kg)	0.01 lb (5 g)	Stainless Steel	7.5 in × 9.5 in (190 mm × 242 mm)	30251705	752
V22PWE1501T	3 lb (1.5 kg)	0.0005 lb (0.2 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035682	659
V22PWE3T	6 lb (3 kg)	0.001 lb (0.5 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035683	659
V22PWE6T	15 lb (6 kg)	0.002 lb (1 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035684	659
V22PWE15T	30 lb (15 kg)	0.005 lb (2 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30035685	659
V22PWE30T	60 lb (30 kg)	0.01 lb (5 g)	Plastic	7.5 in × 9.5 in (190 mm × 242 mm)	30251704	659

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Large Pan, 11.8x8.8 in, 300x225mm V22 V41	30251753	86	In-Use Cover Set 10 V22PW V41PW	30572906	211



VALOR™ 1000 - V12P

Reliable Food-Safe Scale for Dry Environments

Display

LCD display with white backlight (dual display for T models)

Communication

Optional RS232 for T models only

Construction

ABS housing, plastic or stainless steel pan, carry handles

Design Features

External digital calibration software, integrated level bubble and adjustable feet, selectable weighing units

Operation

D-cell alkaline battery or power adapter



T Models

NSF-certified and USDA AMS-accepted design supports HACCP systems, making Valor 1000 perfect for food preparation tasks. Stainless steel pans and plastic in-use covers available for extra protection.

Save money on batteries. Energy-efficient design operates for up to one year or up to 1,500 hours.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
V12P3	6 lb (3 kg)	0.001 lb (0.5 g)	-	9.65 in x 7.48 in (245 mm x 190 mm)	30539390	297
V12P6	15 lb (6 kg)	0.002 lb (1 g)	-	9.65 in x 7.48 in (245 mm x 190 mm)	30539391	297
V12P15	30 lb (15 kg)	0.005 lb (2 g)	-	9.65 in x 7.48 in (245 mm x 190 mm)	30539392	297
V12P30	60 lb (30 kg)	0.01 lb (5 g)	-	9.65 in x 7.48 in (245 mm x 190 mm)	30539393	297
V12P2T	5 lb (2 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	9.65 in x 7.48 in (245 mm x 190 mm)	30554442	297
V12P5T	10 lb (5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	9.65 in x 7.48 in (245 mm x 190 mm)	30554443	297
V12P10T	20 lb (10 kg)	0.002 lb (1 g)	0.01 lb (5 g)	9.65 in x 7.48 in (245 mm x 190 mm)	30554444	297
V12P20T	50 lb (20 kg)	0.005 lb (2 g)	0.02 lb (10 g)	9.65 in x 7.48 in (245 mm x 190 mm)	30554445	297

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
RS232 Cable 1.5m V12P for T models	30559103	39	In use cover 10 pcs V12P	30559106	143
In use cover 1 pcs V12P	30559105	16	Stainless Steel Platform, 11.8x8.9 in, 300x225 mm	30559107	72



Weighing



Auto Shut-Off



Battery Power



Low Battery Indicator



Overload/Underload Indicators



Stability Indicator



Measurement Canada Approved



NSF Listed



NTEP Certified



USDA-AMS Accepted

DT61XW

Advanced IP68/IP69K Washdown Indicator

Display

6-digit, 7-segment white LED, 20 mm / 0.8 inch high digits, 3 color checkweigh bar matrix

Communication

Easy access communication ports including RS232 and USB Host; second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog output (available as accessories); GLP/GMP data output with real-time clock

Construction

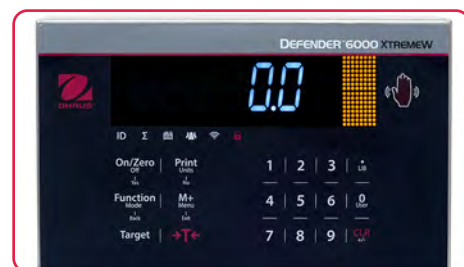
IP68/IP69K 316 stainless steel housing indicator and mounting bracket, knife-resistant front panel

Design Features

3-color check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, Includes connection for EasyConnect bases -- connect to any EasyConnect base for instant configuration. Terminal block in housing provided for non-EasyConnect bases.

Operation

100-240 VAC / 50/60 Hz universal power supply, hardwired



Defender 6000 indicator, constructed of 316 stainless steel, stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

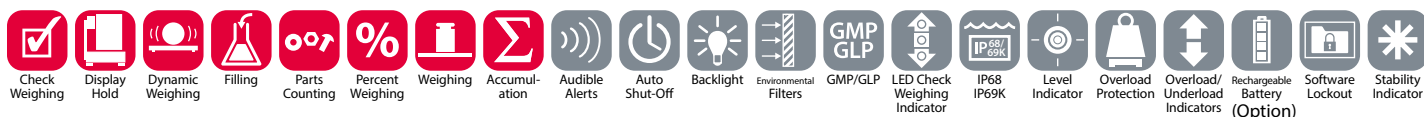
White LED displays clear results for fast processing. The indicator's configurable color bar matrix allows for detailed package weight checking to ensure compliance.

With knife-proof numeric touch keypad, indicator is suitable in harsh processing environments.

Model	Resolution	Certified Resolution	Protection Rating	Item Number	List Price (USD)
DT61XWE	75,000	10,000	IP69K/IP68	30575584	1,184

Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221
Gland M16 D52	30379716	32
Wireless Dongle MTICWD-200	30412537	328
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275
Analog Output Kit, TD52 DT61XW	30424403	238
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238
Cable Extension 9m/27 ft D52 / D61	30424409	238

Accessories	Item Number	List Price (USD)
Ethernet kit Defender Series	30429666	238
Sealing Kit External Power Bank	30572907	392
Datalogic Barcode Scanner QD2131	30593703	272
Zebra Label Printer ZD421T with RS232	30928908	973
Printer, Thermal, STP-103, US	80251992	1,087
PCBA Kit, Alibi Memory, R71 T71	80500503	175
Cable RS232 XW Indicators	80500552	256



DT61PW

Advanced IP68/IP69K Washdown Indicator

Display

6-digit, 7-segment LCD display with white backlight, 45 mm / 1.8 inch mm high digits

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

IP68/IP69K food grade polycarbonate housing and 316 stainless steel mounting bracket

Design Features

3-color check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, Includes connection for EasyConnect bases -- connect to any EasyConnect base for instant configuration. Terminal block in housing provided for non-EasyConnect bases.

Operation

6 D (LR20) Batteries (Included)



Defender 6000 indicator, constructed of polycarbonate, stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

Large, bright backlit LCD clearly displays results for fast processing. The color bar can be used for quick checking of package weights for fast go/no-go alert.

Indicator operates for up to 1,600 hours on one set of batteries for months of use. Battery-powered design eliminates the need for a main connection for increased flexibility.

Model	Resolution	Certified Resolution	Battery Life	Protection Rating	Item Number	List Price (USD)
DT61PW	75,000	10,000	1600 Hours with Disposable Batteries	IP69K; IP68	30575583	864
DT61PW Front Mount	75,000	10,000	1600 Hours with Disposable Batteries	IP69K; IP68	30575585	864

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Gland M16 D52	30379716	32	IR Communication Kit	30572910	108
Cable Extension 9m/27 ft D52 / D61	30424409	238			



TD52XW

Multifunctional Indicator for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

IP68/NEMA 4X stainless steel housing and mounting bracket

Design Features

Check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim, auto-off, auto tare, screensaver, Includes connection for EasyConnect bases -- connect to any EasyConnect base for instant configuration. Terminal block in housing provided for non-EasyConnect bases.

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



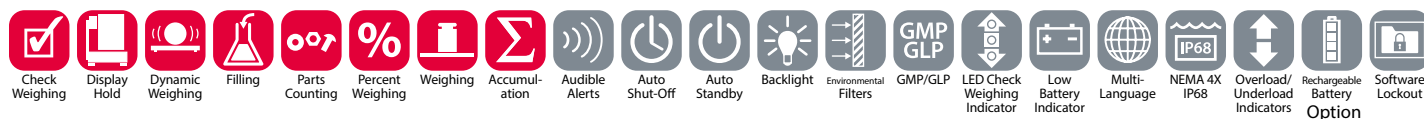
See results clearly on the large backlit display. The alphanumeric keypad & function keys allow for a simplified user experience. On-screen prompts and soft keys will guide you through the operation.

Results can be stored in the Micro SD card. Data output via built-in RS232 or optional interfaces including RS232/RS485/USB device, Ethernet & Bluetooth/WiFi. Analog Output & Discrete I/O with relays.

Features common industrial modes & supports a 50,000 item library & 1,000 user profiles which can be downloaded/uploaded for easy set-up (with SD Card). GMP/GLP with time/date for result traceability.

Model	Resolution	Certified Resolution	Battery Life	Protection Rating	Item Number	List Price (USD)
TD52XW	75,000	10,000	20 Hours with Rechargeable Battery	IP68	30424079	1,174

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Cable Extension 9m/27 ft D52 / D61	30424409	238
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221	Ethernet kit Defender Series	30429666	238
Micro SD Card 8G	30303533	81	Auxiliary display AD7-RS	30472064	104
Gland M16 D52	30379716	32	Sealing cover for D52 LC connector	30538022	93
Wireless Dongle MTICWD-200	30412537	328	LC cable adaptor for TD52 indicator	30548596	37
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275	USB host interface for flash drive	30572923	191
In-Use-Cover, TD52XW	30424023	40	Datalogic Barcode Scanner QD2131	30593703	272
Wall Mount Kit, SST, TD52XW	30424026	121	Zebra Label Printer ZD421T with RS232	30928908	973
Analog Output Kit, TD52 DT61XW	30424403	238	Printer, Thermal, STP-103, US	80251992	1,087
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238	Cable RS232 XW Indicators	80500552	256
Rechargeable battery Li-ion TD52	30424405	285	Software, Winwedge	80850080	759
USB Host Interface for Dongle TD52	30424406	201			



TD52P

Multifunctional Indicator for Standard Industrial Applications

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic housing, painted steel mounting bracket.

Design Features

Check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim, auto-off, auto tare, screensaver, Includes connection for EasyConnect bases -- connect to any EasyConnect base for instant configuration. Terminal block in housing provided for non-EasyConnect bases.

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)



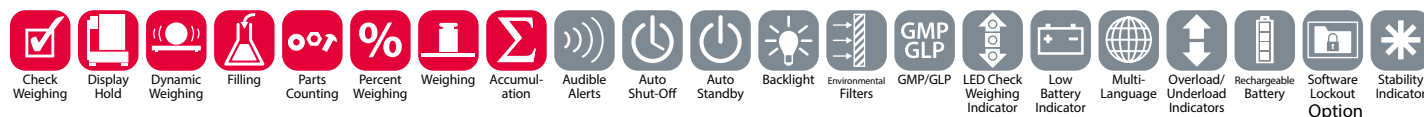
See results clearly on the large backlit display. The alphanumeric keypad & function keys allow for a simplified user experience. On-screen prompts and soft keys will guide you through the operation.

Results can be stored in the Micro SD card. Data output via built-in RS232 or optional interfaces including RS232/RS485/USB device, Ethernet & Bluetooth/WiFi. Analog Output & Discrete I/O with relays.

Features common industrial modes & supports a 50,000 item library & 1,000 user profiles which can be downloaded/uploaded for easy set-up (with SD Card). GMP/GLP with time/date for result traceability.

Model	Resolution	Certified Resolution	Battery Life	Protection Rating	Item Number	List Price (USD)
TD52P	75,000	10,000	20 Hours with Rechargeable Battery	-	30424078	958

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Cable, RS232, 1.5m, R71 to balance	30057595	72	Cable Extension 9m/27 ft D52 / D61	30424409	238
Printer, Impact, SF40A, AM	30064203	1,409	Ethernet kit Defender Series	30429666	238
Discrete I/O Kit, R71 TD52 DT61XW	30097591	221	In-Use-Cover, Set(10), TD52P	30469948	238
Micro SD Card 8G	30303533	81	In-Use-Cover, Set(10), TD52XW	30469949	314
Gland M16 D52	30379716	32	Auxiliary display AD7-RS	30472064	104
Wireless Dongle MTICWD-200	30412537	328	Sealing cover for D52 LC connector	30538022	93
Alarm Beacon Kit 3 Colors 243mm OHAUS	30424021	275	LC cable adaptor for TD52 indicator	30548596	37
In-Use-Cover, TD52P	30424022	32	USB host interface for flash drive	30572923	191
Wall Mount Kit, CS, TD52P	30424027	89	Datalogic Barcode Scanner QD2131	30593703	272
Analog Output Kit, TD52 DT61XW	30424403	238	Zebra Label Printer ZD421T with RS232	30928908	973
2nd RS232/RS485/USB Kit TD52 DT61XW	30424404	238	Printer, Thermal, STP-103, US	80251992	1,087
Rechargeable battery Li-ion TD52	30424405	285	Cable RS232 IBM 9P Male-to-Female	80500525	275
USB Host Interface for Dongle TD52	30424406	201	Software, Winwedge	80850080	759



T72XW

Advanced Performance Stainless Steel Indicator with External Device Control Capabilities

Display

Transflective graphic LCD with white backlight, 240 × 96 pixels

Communication

Easy access communication port including RS232 (included), USB, Ethernet and second RS232 or RS485 (accessories sold separately). GLP/GMP data output with real-time clock.

Construction

IP66/NEMA 4X stainless steel housing and mounting bracket

Design Features

Checkweighing lights with selectable operation and audible signal settings, sealed front panel, 5 operating languages (English, Spanish, French, German and Italian), selectable environmental and auto-print settings, stability and overload/underload indicators

Operation

AC power (included)



With a 50,000 displayed resolution and the ability to support up to 10 load cells, T72XW was designed for heavy-duty industrial applications such as vehicle weighing.

Two option slots are available to enable a wide range of connectivity interfaces. Control external devices using the discrete I/O interface and transfer data through the serial, USB or Ethernet ports.

T72XW is very easy to set up and navigate - featuring a vivid graphic display with on-screen prompts and an alphanumeric keypad with designated keys for common functions such as Tare & ID information.

Model	Resolution	Certified Resolution	Battery Life	Protection Rating	Item Number	List Price (USD)
T72XW	75,000	10,000	-	IP66	30126959	1,244

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Printer, Thermal, STP-103, US	80251992	1,087
Ethernet Kit, T72XW	30132163	221	Cable, ST103-CKW55 TxxXW	80252584	309
USB with I/O Kit, T72XW	30132164	247	Cable RS232 XW Indicators	80500552	256
COM2 Kit, T72XW	30132165	221	Software, Winwedge	80850080	759



Check Weighing



Dynamic Weighing



Parts Counting



Totalization



Truck Weighing



Weighing



Audible Alerts



Auto Shut-Off



Auto Standby



Backlight



Environmental Filters



GMP/GLP



Multi-Language



NEMA 4X IP66



Overload/Underload Indicators



Software Lockout



Stability Indicator



Time/Date



Measurement Canada Approved



NTEP Certified

i-DT33XW

Stainless Steel Washdown Indicator for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

IP66 stainless steel housing and mounting bracket

Operation

Internal power supply with power cord (included) or rechargeable battery (included)



Item 30678630



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode, the display changes color (yellow/green/red) to alert when it is within the target weight range.

Features software for Parts Counting, Checkweighing, and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Indicator features an IP66 protected 304-stainless steel housing with bracket. Display resolution up to 1:30,000; OIML approved resolution 1:10,000; NTEP and Measurement Canada approved to 1:6,000.

Model	Battery Life	Protection Rating	Item Number	List Price (USD)
DT33XW EZ	100 Hours with Rechargeable Battery	IP66	30678638	568
DT33XW	100 Hours with Rechargeable Battery	IP66	30659311	568

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	USB Device Interface Kit i-DT33	30699120	133
Cable Extension 9m/27 ft D52 / D61	30424409	238	Dust Cover Set(5) i-DT33	30699121	67
Ethernet kit Defender Series	30429666	238	Cable RS232 XW Indicators	80500552	256
Zebra Label Printer ZD421T with RS232	30928908	973	Auxiliary display AD7-RS	30472064	104



Check Weighing



Parts Counting



Totalization



Weighing



Auto Shut-Off



Backlight



Battery Power



Environmental Filters



LED Check Weighing Indicator



Level Indicator



NEMA 4X IP66



Low Battery Indicator



Overload Protection



Overload/Underload Indicators



Software Lockout



Stability Indicator



Measurement Canada Approved



NTEP Certified

I-DT33P

ABS Plastic Indicator for Basic Industrial Applications

Display

7 Segment LCD with multicolor backlight

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS housing and powder-coated steel mounting bracket

Operation

Internal power supply with power cord (included), 6C (LR14) Batteries (not included) or Rechargeable Battery option



Item 30648433



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode, the display changes color (yellow/green/red) to alert when it is within the target weight range.

Features software for Parts Counting, Checkweighing, and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Indicator features a durable ABS housing and steel mounting bracket. Display resolution up to 1:30,000; OIML approved resolution 1:10,000; NTEP and Measurement Canada approved to 1:6,000.

Model	Battery Life	Protection Rating	Item Number	List Price (USD)
DT33P EZ	100 Hours with Rechargeable Battery; 360 Hours with Disposable Batteries	Not applicable	30648433	443
DT33P	100 Hours with Rechargeable Battery; 360 Hours with Disposable Batteries	Not applicable	30659310	443

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Printer, Impact, SF40A, AM	30064203	1,409	Dust Cover Set(5) i-DT33	30699121	67
Cable Extension 9m/27 ft D52 / D61	30424409	238	Rechargeable battery Kit i-DT33P	30699122	67
Ethernet kit Defender Series	30429666	238	Cable RS232 IBM 9P Male-to-Female	80500525	275
Zebra Label Printer ZD421T with RS232	30928908	973	Auxiliary display AD7-RS	30472064	104
USB Device Interface Kit i-DT33	30699120	133			



Check Weighing



Parts Counting



Totalization



Weighing



Auto Shut-Off



Backlight



Battery Power



Environmental Filters



LED Check Weighing Indicator



Level Indicator



Low Battery Indicator



Overload Protection



Overload/Underload Indicators



Software Lockout



Stability Indicator



Measurement Canada Approved



NTEP Certified

i-DT25P

Indicator For Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

USB Device (Type-C), RS232, Mini DIN (for Auxiliary Display only)

Construction

ABS construction

Design Features

Selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto-off, auto tare

Operation

4 AA (LR6) Batteries (Not Included); AC Adapter (Included); USB Cable (Included)



Features software for most common industrial weighing modes such as Parts Counting, Totalization, Dynamic Weighing/Display Hold and Peak Hold, eliminating the need for complicated manual calculations.

Indicator features an ABS housing and powder coated steel bracket for desk or wall mounting. Display resolution up to 1: 30,000; OIML approved resolution 1: 6,000, NTEP/ Measurement Canada certified resolution 1: 10,000.

Flexible operation with the included AC power adapter, USB type-C port or disposable battery power. Includes RS232 and USB Device for data communication.

Model	Resolution	Certified Resolution	Protection Rating	Item Number	List Price (USD)
i-DT25P	30,000	10,000	-	30745987	341

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Column Kit Painted Floor Scale	30531244	284	Printer, Thermal, STP-103, US	80251992	1,087
Column Kit Stainless Steel Floor Scale	30539553	360	Cable, 25 Pin-9 Pin, PC-TxxP	80500524	275
Printer, Impact, SF40A, AM	30064203	1,409	Cable RS232 IBM 9P Male-to-Female	80500525	275
Interface Kit, RS232-USB	30304101	207	DB9 Adapter, Male-to-Male	30692384	9
Interface Kit, RS232-Ethernet	30304102	207	Auxiliary Display, AD7-MD	30472063	188



DEFENDER™ 6000 WASHDOWN BASE

Advanced IP68/IP69K Washdown Base

Construction

316 stainless steel platform and frame, hermetically-sealed stainless steel load cell, non-slip adjustable rubber feet, level indicator

Design Features

150% overload capacity protection, open design to minimize build-up and support easy cleaning, Includes EasyConnect system with base capacity, readability and factory calibration programmed in module. Connect to any EasyConnect indicator for instant configuration. Can also easily be wired into non-EasyConnect indicators.



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel construction and hermetically-sealed load cell.

The Defender 6000 bases are equipped with an EasyConnect cable, which allows instant configuration with Defender 5000 and 6000 indicators, speeding installation.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base providing corrosion protection in food, chemical processing, and packaging.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D5K1S	10 lb (5 kg)	0.001 lb (0.5 g)	0.002 lb (1 g)	9.8 in x 9.8 in (250 mm x 250 mm)	30575603	1,401
D12K1R	25 lb (12.5 kg)	0.002 lb (1 g)	0.005 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575604	1,498
D25K1R	50 lb (25 kg)	0.005 lb (2 g)	0.01 lb (5 g)	11.8 in x 11.8 in (300 mm x 300 mm)	30575605	1,498
D50K1L	100 lb (50 kg)	0.01 lb (5 g)	0.02 lb (10 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575606	1,893
D150K1L	300 lb (150 kg)	0.02 lb (10 g)	0.1 lb (50 g)	19.7 in x 15.7 in (500 mm x 400 mm)	30575607	1,893

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Cable Extension 9m/27 ft D52 / D61	30424409	238	Column Kit Column Kit 26.4 in/670mm high, 316 stainless steel D61	30572909	257
Cable Kit Extension for base	30429931	74	Wheel Kit SST Defender Series	30616409	238
Column Kit Column Kit 10.2 in/260mm high, 316 stainless steel D61	30572908	214	Mounting Set Front SST DT61	30626654	202



DEFENDER™ 5000 STAINLESS STEEL BASE

Durable Bases for the Most Demanding of Industrial Applications

Construction

304-grade stainless steel platform, stainless steel frame, IP67 load cell, non-slip adjustable rubber feet, level indicator

Design Features

150% capacity overload protection. Includes EasyConnect system with base capacity, readability and factory calibration programmed in module. Connect to any EasyConnect indicator for instant configuration. Can also easily be wired into non-EasyConnect indicators.



The W series features a stainless steel platform, frame and IP67 load cell to withstand harsh industrial environments.

The Defender 5000 bases are equipped with an EasyConnect cable, which allows instant configuration with Defender TD52 or i-DT61 indicators, speeding up installation.

Defender 5000 bases are NTEP-certified and Measurement Canada approved. These bases also carry OIML and EC Type approvals, which make them ideal for legal-for-trade use.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D2WQS	5 lb (2.5 kg)	0.0002 lb (0.1 g)	0.001 lb (0.5 g)	10 in × 10 in (254 mm × 254 mm)	30419628	1,162
D5WQS	10 lb (5 kg)	0.0005 lb (0.2 g)	0.002 lb (1 g)	10 in × 10 in (254 mm × 254 mm)	30419629	1,162
D12WQS	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	10 in × 10 in (254 mm × 254 mm)	30419630	1,162
D12WQR	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30419634	1,238
D25WQR	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30419635	1,238
D50WQR	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30419636	1,238
D25WQL	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	18 in × 18 in (457 mm × 457 mm)	30419642	1,962
D50WQL	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30419643	1,962
D125WQL	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	18 in × 18 in (457 mm × 457 mm)	30419644	1,962
D50WTX	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30419648	2,287
D125WTX	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30419649	2,287
D250WTX	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30419650	2,287
D50WQV	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30419655	2,720
D125WQV	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30419656	2,720
D250WQV	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30419657	2,893
D500WQV	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	24 in × 24 in (610 mm × 610 mm)	30419658	2,893

Accessories	Item Number	List Price (USD)
Wheel Kit, Defender Series	30372146	191
Mounting Set Front SST D52	30424024	158
Holder Kit Printer SST	30424025	89
Cable Extension 9m/27 ft D52 / D61	30424409	238
Column Kit 13.9 in / 35 cm Painted Steel D52xx	30424410	105
Column Kit 26.9 in / 68 cm Painted Steel D52xx	30424411	135
Column Kit 38.8 in / 98 cm Painted Steel D52xx	30424412	152

Accessories	Item Number	List Price (USD)
Column Kit 13.9 in / 35 cm 304 Stainless Steel D52xx	30424413	229
Column Kit 26.9 in / 68 cm 304 Stainless Steel D52xx	30424414	291
Column Kit 38.8 in / 98 cm 304 Stainless Steel D52xx	30424415	314
Cable Kit Extension for base	30429931	74



DEFENDER™ 5000 BASE

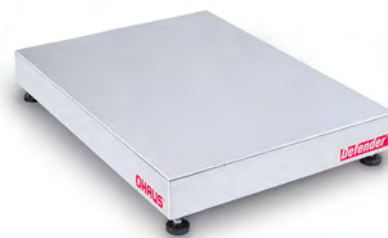
Durable Bases for the Most Demanding of Industrial Applications

Construction

304-grade stainless steel platform, sand grey powder-coated steel frame, aluminum load cell, non-slip adjustable rubber feet, level indicator

Design Features

150% capacity overload protection. Includes EasyConnect system with base capacity, readability and factory calibration programmed in module. Connect to any EasyConnect indicator for instant configuration. Can also easily be wired into non-EasyConnect indicators.



The R Series features a stainless steel platform, powder-coated steel frame and an aluminum load cell to withstand harsh industrial environments.

The Defender 5000 bases are equipped with an EasyConnect cable, which allows instant configuration with Defender 5000 (TD52) or 6000 indicators, speeding up installation.

Defender 5000 bases are NTEP-certified and Measurement Canada approved. These bases also carry OIML and EC Type approvals, which make them ideal for legal-for-trade use.

Model	Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D12RQR	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	12 in × 12 in (305 mm × 305 mm)	30419631	1,022
D25RQR	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	12 in × 12 in (305 mm × 305 mm)	30419632	1,022
D50RQR	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	12 in × 12 in (305 mm × 305 mm)	30419633	1,022
D12RTR	25 lb (12.5 kg)	0.001 lb (0.5 g)	0.005 lb (2 g)	14 in × 12 in (355 mm × 305 mm)	30419637	1,162
D25RTR	50 lb (25 kg)	0.002 lb (1 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30419638	1,162
D50RTR	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30419639	1,162
D50RQL	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	18 in × 18 in (457 mm × 457 mm)	30419640	1,461
D125RQL	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	18 in × 18 in (457 mm × 457 mm)	30419641	1,461
D50RTX	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 18 in (610 mm × 457 mm)	30419645	1,530
D125RTX	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 18 in (610 mm × 457 mm)	30419646	1,530
D250RTX	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 18 in (610 mm × 457 mm)	30419647	1,530
D50RQV	100 lb (50 kg)	0.005 lb (2 g)	0.02 lb (10 g)	24 in × 24 in (610 mm × 610 mm)	30419651	1,725
D125RQV	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	24 in × 24 in (610 mm × 610 mm)	30419652	1,725
D250RQV	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	24 in × 24 in (610 mm × 610 mm)	30419653	1,725
D500RQV	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	24 in × 24 in (610 mm × 610 mm)	30419654	1,725
D125RTV	250 lb (125 kg)	0.01 lb (5 g)	0.05 lb (20 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30419659	2,287
D250RTV	500 lb (250 kg)	0.02 lb (10 g)	0.1 lb (50 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30419660	2,287
D500RTV	1,000 lb (500 kg)	0.05 lb (20 g)	0.2 lb (100 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30419661	2,287

Accessories	Item Number	List Price (USD)
Wheel Kit, Defender Series	30372146	191
Mounting Set Front SST D52	30424024	158
Holder Kit Printer SST	30424025	89
Cable Extension 9m/27 ft D52 / D61	30424409	238
Column Kit 13.9 in / 35 cm Painted Steel D52xx	30424410	105
Column Kit 26.9 in / 68 cm Painted Steel D52xx	30424411	135
Column Kit 38.8 in / 98 cm Painted Steel D52xx	30424412	152

Accessories	Item Number	List Price (USD)
Column Kit 13.9 in / 35 cm 304 Stainless Steel D52xx	30424413	229
Column Kit 26.9 in / 68 cm 304 Stainless Steel D52xx	30424414	291
Column Kit 38.8 in / 98 cm 304 Stainless Steel D52xx	30424415	314
Cable Kit Extension for base	30429931	74



DEFENDER™ 3000 STAINLESS STEEL BASES

Bench Scale Bases for Basic Industrial Washdown Applications

Construction

304-grade stainless steel platform, stainless steel tubular frame, IP67 stainless steel load cell



This tough industrial scale features a 304-stainless steel platform, frame and IP67 load cell.

Capacities from 15 kg/30 lb to 300 kg/600 lb, with platforms from 305 × 355 mm/12 × 14 inch to 500 × 650 mm/19.7 × 25.6 inch.

Default resolution up to 7,500d; OIML, NTEP certified and Measurement Canada approved to 3,000e for legal-for-trade performance.

Model	Maximum Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D15C1R	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30683697	968
D30C1R	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30683698	968
D75C1R	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30683699	968
D75C1L	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30683702	1,715
D150C1L	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30683703	1,715
D150C1X	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30683706	2,385
D300C1X	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30683707	2,385

Accessories	Item Number	List Price (USD)
Wheel Kit, Defender Series	30372146	191
Column Kit 13.9 in / 35 cm Painted Steel D52xx	30424410	105
Column Kit 26.9 in / 68 cm Painted Steel D52xx	30424411	135
Column Kit 38.8 in / 98 cm Painted Steel D52xx	30424412	152
Column Kit 13.9 in / 35 cm 304 Stainless Steel D52xx	30424413	229
Column Kit 26.9 in / 68 cm 304 Stainless Steel D52xx	30424414	291

Accessories	Item Number	List Price (USD)
Wheel Kit SST Defender Series	30616409	238
Column Kit 13 in / 330 mm SST i-DT33	30696595	250
Column Kit 26.8 in / 680 mm SST i-DT33	30696596	332
Column Kit 13 in / 330 mm CS i-DT33	30696597	111
Column Kit 26.8 in / 680 mm CS i-DT33	30696598	133
Column Kit 38.8 in / 980 mm CS i-DT33	30696599	155
Carrying Handle Kit i-DT33	30696600	139



DEFENDER™ 3000 BASES

Bench Scale Bases for Basic Industrial Applications

Construction

304-grade stainless steel platform, powder-coated steel tubular frame, aluminum load cell.



This tough industrial scale features a 304-stainless steel platform, powder-coated steel tubular frame and column, aluminum load cell.

Capacities from 15 kg/30 lb to 600 kg/1,200 lb, with platforms from 305 × 355 mm/12 × 14 inch to 600 × 800 mm/23.6 × 31.5 inch.

Default resolution up to 7,500d; OIML, NTEP certified and Measurement Canada approved to 3,000e for legal-for-trade performance.

Model	Maximum Capacity	Readability	Certified Readability	Platform Size	Item Number	List Price (USD)
D15B1R	30 lb (15 kg)	0.005 lb (2 g)	0.01 lb (5 g)	14 in × 12 in (355 mm × 305 mm)	30683694	887
D30B1R	60 lb (30 kg)	0.01 lb (5 g)	0.02 lb (10 g)	14 in × 12 in (355 mm × 305 mm)	30683695	887
D75B1R	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	14 in × 12 in (355 mm × 305 mm)	30683696	887
D75B1L	150 lb (75 kg)	0.02 lb (10 g)	0.05 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30683700	914
D150B1L	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	21.6 in × 16.5 in (550 mm × 420 mm)	30683701	914
D150B1X	300 lb (150 kg)	0.05 lb (20 g)	0.1 lb (50 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30683704	1,022
D300B1X	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	25.6 in × 19.7 in (650 mm × 500 mm)	30683705	1,022
D300B1V	600 lb (300 kg)	0.1 lb (50 g)	0.2 lb (100 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30683708	1,384
D600B1V	1,200 lb (600 kg)	0.2 lb (100 g)	0.5 lb (200 g)	31.5 in × 23.6 in (800 mm × 600 mm)	30683709	1,384

Accessories	Item Number	List Price (USD)
Wheel Kit, Defender Series	30372146	191
Column Kit 13.9 in / 35 cm Painted Steel D52xx	30424410	105
Column Kit 26.9 in / 68 cm Painted Steel D52xx	30424411	135
Column Kit 38.8 in / 98 cm Painted Steel D52xx	30424412	152
Column Kit 13.9 in / 35 cm 304 Stainless Steel D52xx	30424413	229

Accessories	Item Number	List Price (USD)
Column Kit 26.9 in / 68 cm 304 Stainless Steel D52xx	30424414	291
Wheel Kit SST Defender Series	30616409	238
Column Kit 13 in / 330 mm SST i-DT33	30696595	250
Column Kit 26.8 in / 680 mm SST i-DT33	30696596	332
Column Kit 13 in / 330 mm CS i-DT33	30696597	111
Column Kit 26.8 in / 680 mm CS i-DT33	30696598	133
Column Kit 38.6 in / 980 mm CS i-DT33	30696599	155
Carrying Handle Kit SST i-DT33	30696600	139



Weights & Weight Sets



OHAUS' portfolio now includes the Troemner library of weights, backed by exclusive construction and more than 100 years of expertise. With a wide selection of weight classes backed by both ASTM and OIML, OHAUS weights offer a comprehensive range of 1 mg to 5,000 lb, and are available with certifications.





Our weights and weight sets are backed by the world's leading supplier of precision weights and mass standards. Since 1838, Troemner has enhanced its reputation as being the premier precision weight company by having industry recognized metrologists and highly trained calibrators on staff. Troemner's production of precision weights involves using the finest materials and equipment available in a state-of-the-art facility. For these important reasons, Troemner is capable of providing unmatched measurements and metrological analysis, to provide our customers with the precision weights they need.

Only the finest raw materials are selected in order to manufacture high quality weights. Troemner is the only supplier that has a special stainless steel blend called Troemner Alloy 8, which possesses closely controlled density (8.03 g/cm³), extremely low magnetic properties, good stability and resistance to corrosion.

Weight Selector Guide

Troemner UltraClass - For analytical and microbalances with readability as low as 1 g. These are the most precise two-piece weights available, with weight tolerances 40 to 50% better than ANSI/ASTM Class 1. Ultra Class weights combine high precision with the advantage of two-piece construction (1 g and larger) to avoid costly issues associated with one-piece weights.

ANSI/ASTM Class 1 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

ANSI/ASTM Class 4 - For calibration of semi-analytical balances and for student use.

ANSI/ASTM Class 6 - This class meets the specifications of OIML R 111 Class M2.

OIML Class E1 - Used as a primary reference for calibrating other reference standards and weights where the stability of the environment and careful handling are assured. Class E1 weights have no method of adjustment and are not suitable for general laboratory use. The uncertainty is guaranteed to be 1/3 the tolerance.

OIML Class E2 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

OIML Class F1 - Appropriate for calibrating high-precision top loading balances with a readability as low as 0.01 g to 0.001 g.

OIML Class F2 - For calibration of semi-analytical balances and for student use.

NIST Class F - Primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.

ULTRAClass IND WEIGHTS WITHOUT CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to
Troemner UltraClass Tolerances



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390183	128
300 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390182	128
200 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390181	128
100 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390180	128
50 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390179	128
30 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390178	128
20 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390177	128
10 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390176	128
5 mg	0.005 mg	UltraClass	No Certificate	Flat	304 Stainless Steel	30390175	128
3 mg	0.005 mg	UltraClass	No Certificate	Flat	3003-H14 Aluminum	30390174	128
2 mg	0.005 mg	UltraClass	No Certificate	Flat	3003-H14 Aluminum	30390173	128
1 mg	0.005 mg	UltraClass	No Certificate	Flat	3003-H14 Aluminum	30390172	128



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	63 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390204	14,384
30 kg	38 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390203	9,744
25 kg	31 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390202	7,731
20 kg	25 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390201	4,177
10 kg	13 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390200	3,581
5 kg	6 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390199	1,939
3 kg	3.8 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390198	1,681
2 kg	2.5 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390197	1,310
1 kg	1.3 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390196	827
500 g	0.6 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390195	405
300 g	0.38 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390194	297
200 g	0.25 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390193	278
100 g	0.13 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390192	172
50 g	0.06 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390191	161
30 g	0.037 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390190	153
20 g	0.037 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390189	145
10 g	0.025 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390188	145
5 g	0.017 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390187	145
3 g	0.017 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390186	145
2 g	0.017 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390185	130
1 g	0.017 mg	UltraClass	No Certificate	Cylindrical	Troemner Alloy 8	30390184	130



ULTRAClass IND WEIGHTS WITH TRACEABLE CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to Troemner UltraClass Tolerances



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
1 mg	0.005 mg	UltraClass	Traceable	Flat	3003-H14 Aluminum	30390270	172
500 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390215	172
300 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390214	172
200 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390213	172
100 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390212	172
50 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390211	172
30 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390210	172
20 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390209	172
10 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390208	172
5 mg	0.005 mg	UltraClass	Traceable	Flat	304 Stainless Steel	30390207	172
3 mg	0.005 mg	UltraClass	Traceable	Flat	3003-H14 Aluminum	30390206	172
2 mg	0.005 mg	UltraClass	Traceable	Flat	3003-H14 Aluminum	30390205	172



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	63 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390236	15,389
30 kg	38 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390235	9,801
25 kg	31 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390234	7,819
20 kg	25 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390233	4,395
10 kg	13 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390232	3,776
5 kg	6 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390231	2,032
3 kg	3.8 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390230	1,768
2 kg	2.5 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390229	1,416
1 kg	1.3 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390228	941
500 g	0.6 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390227	464
300 g	0.38 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390226	381
200 g	0.25 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390225	340
100 g	0.13 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390224	232
50 g	0.06 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390223	227
30 g	0.037 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390222	217
20 g	0.037 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390221	210
10 g	0.025 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390220	210
5 g	0.017 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390219	210
3 g	0.017 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390218	210
2 g	0.017 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390217	194
1 g	0.017 mg	UltraClass	Traceable	Cylindrical	Troemner Alloy 8	30390216	194



ULTRAClass IND WEIGHTS WITH NVLAP CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to Troemner UltraClass Tolerances



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390248	203
300 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390247	203
200 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390246	203
100 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390245	203
50 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390244	203
30 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390243	203
20 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390242	203
10 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390241	203
5 mg	0.005 mg	UltraClass	NVLAP	Flat	304 Stainless Steel	30390240	203
3 mg	0.005 mg	UltraClass	NVLAP	Flat	3003-H14 Aluminum	30390239	203
2 mg	0.005 mg	UltraClass	NVLAP	Flat	3003-H14 Aluminum	30390238	203
1 mg	0.005 mg	UltraClass	NVLAP	Flat	3003-H14 Aluminum	30390237	203



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	63 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390269	15,651
30 kg	38 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390268	10,761
25 kg	31 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390267	7,908
20 kg	25 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390266	4,521
10 kg	13 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390265	4,251
5 kg	6 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390264	2,277
3 kg	3.8 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390263	1,887
2 kg	2.5 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390262	1,530
1 kg	1.3 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390261	1,058
500 g	0.6 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390260	522
300 g	0.38 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390259	439
200 g	0.25 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390258	427
100 g	0.13 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390257	278
50 g	0.06 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390256	251
30 g	0.037 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390255	251
20 g	0.037 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390254	232
10 g	0.025 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390253	221
5 g	0.017 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390252	221
3 g	0.017 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390251	221
2 g	0.017 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390250	221
1 g	0.017 mg	UltraClass	NVLAP	Cylindrical	Troemner Alloy 8	30390249	221



ULTRAClass EB WEIGHTS WITHOUT CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to
Troemner UltraClass Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	38 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390301	3,532
25 kg	31 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390300	#N/A
24 kg	28 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390299	#N/A
20 kg	25 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390298	2,497
16 kg	18 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390297	2,322
10 kg	13 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390296	1,680
8 kg	9.5 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390295	#N/A
5 kg	6 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390294	1,230
4 kg	4.9 mg	UltraClass	No Certificate	Grip Handle	303 Stainless Steel	30390292	#N/A



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	6 mg	UltraClass	No Certificate	Cylindrical	303 Stainless Steel	30390293	786
4 kg	4.9 mg	UltraClass	No Certificate	Cylindrical	303 Stainless Steel	30390291	663
3 kg	3.8 mg	UltraClass	No Certificate	Cylindrical	303 Stainless Steel	30390290	519
2 kg	2.5 mg	UltraClass	No Certificate	Cylindrical	303 Stainless Steel	30390289	349
1,500 g	1.9 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390288	336
1,000 g	1.3 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390287	297
600 g	0.95 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390286	268
500 g	0.6 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390285	249
400 g	0.49 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390284	238
300 g	0.38 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390283	203
200 g	0.25 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390282	175
160 g	0.19 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390281	184
150 g	0.19 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390280	184
100 g	0.13 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390279	146
80 g	0.095 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390278	159
70 g	0.095 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390277	159
60 g	0.095 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390276	148
50 g	0.06 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390275	121
40 g	0.049 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390274	125
30 g	0.037 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390273	116
20 g	0.037 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390272	116
10 g	0.025 mg	UltraClass	No Certificate	Cylindrical	316 Stainless Steel	30390271	116

ULTRAClass EB WEIGHTS WITH TRACEABLE CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to Troemner UltraClass Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	38 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390332	3,701
25 kg	31 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390331	3,109
24 kg	28 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390330	2,853
20 kg	25 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390329	2,554
16 kg	18 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390328	2,385
10 kg	13 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390327	1,779
8 kg	9.5 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390326	1,574
5 kg	6 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390325	1,267
4 kg	4.9 mg	UltraClass	Traceable	Grip Handle	303 Stainless Steel	30390323	1,161



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	6 mg	UltraClass	Traceable	Cylindrical	303 Stainless Steel	30390324	862
4 kg	4.9 mg	UltraClass	Traceable	Cylindrical	303 Stainless Steel	30390322	774
3 kg	3.8 mg	UltraClass	Traceable	Cylindrical	303 Stainless Steel	30390321	644
2 kg	2.5 mg	UltraClass	Traceable	Cylindrical	303 Stainless Steel	30390320	437
1,500 g	1.9 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390319	437
1,000 g	1.3 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390318	344
600 g	0.95 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390317	340
500 g	0.6 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390316	309
400 g	0.49 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390315	295
300 g	0.38 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390314	266
200 g	0.25 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390313	253
160 g	0.19 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390312	239
150 g	0.19 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390311	239
100 g	0.13 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390310	184
80 g	0.095 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390309	201
70 g	0.095 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390308	201
60 g	0.095 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390307	201
50 g	0.06 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390306	164
40 g	0.049 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390305	169
30 g	0.037 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390304	164
20 g	0.037 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390303	164
10 g	0.025 mg	UltraClass	Traceable	Cylindrical	316 Stainless Steel	30390302	164

ULTRAClass EB WEIGHTS WITH NVLAP CERTIFICATE

Reference Calibration Weights and Mass Standards Adjusted to Troemner UltraClass Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	38 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390363	4,077
25 kg	31 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390362	3,246
24 kg	28 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390361	2,970
20 kg	25 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390360	2,704
16 kg	18 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390359	2,405
10 kg	13 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390358	1,948
8 kg	9.5 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390357	1,635
5 kg	6 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390356	1,342
4 kg	4.9 mg	UltraClass	NVLAP	Grip Handle	303 Stainless Steel	30390354	1,310



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	6 mg	UltraClass	NVLAP	Cylindrical	303 Stainless Steel	30390355	930
4 kg	4.9 mg	UltraClass	NVLAP	Cylindrical	303 Stainless Steel	30390353	906
3 kg	3.8 mg	UltraClass	NVLAP	Cylindrical	303 Stainless Steel	30390352	781
2 kg	2.5 mg	UltraClass	NVLAP	Cylindrical	303 Stainless Steel	30390351	520
1,500 g	1.9 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390350	573
1,000 g	1.3 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390349	424
600 g	0.95 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390348	447
500 g	0.6 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390347	396
400 g	0.49 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390346	379
300 g	0.38 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390345	362
200 g	0.25 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390344	332
160 g	0.19 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390343	379
150 g	0.19 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390342	379
100 g	0.13 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390341	254
80 g	0.095 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390340	244
70 g	0.095 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390339	244
60 g	0.095 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390338	244
50 g	0.06 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390337	244
40 g	0.049 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390336	244
30 g	0.037 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390335	244
20 g	0.037 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390334	244
10 g	0.025 mg	UltraClass	NVLAP	Cylindrical	316 Stainless Steel	30390333	244

ULTRAClass WEIGHT SETS WITHOUT CERTIFICATE

Reference Calibration Weight Sets and Mass Standards Adjusted to
Troemner UltraClass Tolerances



Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	UltraClass	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390097	36,996
50 kg - 1 mg	UltraClass	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390096	37,673
30 kg - 1 g	UltraClass	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390095	25,835
30 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390094	27,076
25 kg - 1 g	UltraClass	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390093	25,394
25 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390092	26,173
20 kg - 1 g	UltraClass	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390091	16,479
20 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390090	16,917
10 kg - 1 g	UltraClass	-	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390089	12,879
10 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390088	13,556
5 kg - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390087	8,803
5 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390086	9,701
(2) 2 kg - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390011	6,997
(2) 2 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390010	7,682
2 kg - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390085	5,876
2 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390084	6,779
1 kg - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390083	4,346
1 kg - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390082	5,311
500 g - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390081	2,941
500 g - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390080	3,837
(2) 200 g - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390009	1,662
(2) 200 g - 1 mg	UltraClass	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390008	2,352
200 g - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390079	1,512
200 g - 1 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390078	2,151
100 g - 1 g	UltraClass	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390077	1,261
100 g - 100 mg	UltraClass	-	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390076	1,537
100 g - 10 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30390075	1,855
100 g - 5 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390074	1,932
100 g - 1 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390073	2,008
50 g - 1 g	UltraClass	-	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390072	1,348
50 g - 100 mg	UltraClass	-	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390071	1,486
50 g - 10 mg	UltraClass	-	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30390070	1,763
50 g - 5 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390069	1,864
50 g - 1 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390068	2,120
20 g - 1 g	UltraClass	-	10 g; 20 g; (2) 2 g; 1 g; 5 g	30390067	1,142
20 g - 100 mg	UltraClass	-	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30390066	1,425
20 g - 10 mg	UltraClass	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30390065	1,667

Continued on next page

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
20 g - 5 mg	UltraClass	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30390064	1,788
20 g - 1 mg	UltraClass	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390063	2,052
500 mg - 10 mg	UltraClass	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30390062	823
500 mg - 1 mg	UltraClass	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390061	1,224

ULTRAClass WEIGHT SETS WITH TRACEABLE CERTIFICATE

Reference Calibration Weight Sets and Mass Standards Adjusted to
Troemner UltraClass Tolerances



Traceable

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	UltraClass	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390134	39,803
50 kg - 1 mg	UltraClass	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390133	41,373
30 kg - 1 g	UltraClass	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390132	28,368
30 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390131	29,571
25 kg - 1 g	UltraClass	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390130	25,910
25 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390129	26,900
20 kg - 1 g	UltraClass	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390128	18,460
20 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390127	19,576
10 kg - 1 g	UltraClass	Traceable	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390126	13,343
10 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390125	14,699
5 kg - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390124	9,795
5 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390123	11,179
(2) 2 kg - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390015	8,121
(2) 2 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390014	9,464
2 kg - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390122	6,459
2 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390121	7,677
1 kg - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390120	5,031
1 kg - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390119	6,396
500 g - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390118	3,675
500 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390117	5,011
(2) 200 g - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390013	2,013
(2) 200 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390012	3,392
200 g - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390116	1,763
200 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390115	3,105
100 g - 1 g	UltraClass	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390114	1,511
100 g - 100 mg	UltraClass	Traceable	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390113	1,894
100 g - 10 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30390112	2,396
100 g - 5 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390111	2,484
100 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390110	2,666
50 g - 1 g	UltraClass	Traceable	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390109	1,545
50 g - 100 mg	UltraClass	Traceable	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390108	1,902
50 g - 10 mg	UltraClass	Traceable	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30390107	2,357
50 g - 5 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390106	2,496
50 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390105	2,697
20 g - 1 g	UltraClass	Traceable	10 g; 20 g; (2) 2 g; 1 g; 5 g	30390104	1,337
20 g - 100 mg	UltraClass	Traceable	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30390103	1,618
20 g - 10 mg	UltraClass	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30390102	2,196
20 g - 5 mg	UltraClass	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30390101	2,052

Continued on next page

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
20 g - 1 mg	UltraClass	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390100	2,546
500 mg - 10 mg	UltraClass	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30390099	1,281
500 mg - 1 mg	UltraClass	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390098	1,512

ULTRAClass WEIGHT SETS WITH NVLAP CERTIFICATE

Reference Calibration Weight Sets and Mass Standards Adjusted to
Troemner UltraClass Tolerances



Weights by
TROEMNER



NVLAP

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	UltraClass	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390171	40,508
50 kg - 1 mg	UltraClass	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390170	41,936
30 kg - 1 g	UltraClass	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390169	28,919
30 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390168	30,701
25 kg - 1 g	UltraClass	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390167	26,412
25 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390166	27,915
20 kg - 1 g	UltraClass	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390165	18,875
20 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390164	20,629
10 kg - 1 g	UltraClass	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390163	14,070
10 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390162	15,727
5 kg - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390161	10,761
5 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390160	12,247
(2) 2 kg - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390019	8,660
(2) 2 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390018	10,416
2 kg - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390159	6,917
2 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390158	8,642
1 kg - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390157	5,607
1 kg - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390156	7,337
500 g - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390155	4,152
500 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390154	5,919
(2) 200 g - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390017	2,577
(2) 200 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390016	4,597
200 g - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390153	2,333
200 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390152	4,101
100 g - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390151	2,039
100 g - 100 mg	UltraClass	NVLAP	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390150	2,660
100 g - 10 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30390149	3,269
100 g - 5 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390148	3,092
100 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390147	3,763
50 g - 1 g	UltraClass	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390146	1,957
50 g - 100 mg	UltraClass	NVLAP	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30390145	2,491
50 g - 10 mg	UltraClass	NVLAP	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30390144	3,092
50 g - 5 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30390143	3,003
50 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390142	3,588
20 g - 1 g	UltraClass	NVLAP	10 g; 20 g; (2) 2 g; 1 g; 5 g	30390141	1,524
20 g - 100 mg	UltraClass	NVLAP	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30390140	2,232
20 g - 10 mg	UltraClass	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30390139	2,684

Continued on next page

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
20 g - 5 mg	UltraClass	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30390138	2,791
20 g - 1 mg	UltraClass	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390137	3,211
500 mg - 10 mg	UltraClass	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30390136	1,700
500 mg - 1 mg	UltraClass	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390135	2,114

CAL-PAKS

Reference Calibration Weight Sets and Mass Standards Adjusted to
Troemner UltraClass Tolerances



NVLAP

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
2 g - 1 mg	UltraClass	NVLAP	200 mg; 2 g; 1 mg	30391799	593
5 g - 1 mg	UltraClass	NVLAP	5 g; 500 mg; 1 mg	30391798	592



1

Set Capacity	Weight Set Range	ASTM Class	Density at 20°C	Item Number	List Price (USD)
55.2 g	50 g - 200mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30390007	566
57 g	50 g - 2 g	1	8.03 g/cm ³	30391795	566
110.02 g	100 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391794	566
110.2 g	100 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391793	566
112 g	100 g - 2 g	1	8.03 g/cm ³	30391792	586
220.2 g	200 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391791	671
222 g	200 g - 2 g	1	8.03 g/cm ³	30391790	671
550.02 g	500 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391789	846
550.2 g	500 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391788	846
552 g	500 g - 2 g	1	8.03 g/cm ³	30391787	846
1,102 g	1 kg - 2 g	1	8.03 g/cm ³	30391786	1,030
1,120 g	1 kg - 20 g	1	8.03 g/cm ³	30391785	1,235
2,202 g	2 kg - 2 g	1	2 kg is 7.95 g/cm ³ ; 1 kg and below are 8.03 g/cm ³	30391784	1,499
2,220 g	2 kg - 20 g	1	2 kg is 7.95 g/cm ³ ; 1 kg and below are 8.03 g/cm ³	30391783	1,932
5,502 g	5 kg - 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390005	#N/A
5,502 g	5 kg, 500 g, 2g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390006	2,025
5,520 g	5 kg - 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390004	#N/A
5,520 g	5 kg, 500 g, 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30391782	2,245
5,202 g	5 kg, 200 g, 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390002	#N/A
5,202 g	5 kg, 200 g, 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390003	2,213
5,220 g	5 kg - 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390000	#N/A
5,220 g	5 kg, 200 g, 20g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390001	2,133
22.02 g	20 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391797	583
22.2 g	20 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391796	583

CLASS I IND WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	125 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391425	13,922
30 kg	75 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391424	8,861
25 kg	62 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391423	7,017
20 kg	50 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391422	4,779
10 kg	25 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391421	3,274
5 kg	12 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391420	1,775
3 kg	7.5 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391419	1,518
2 kg	5 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391418	1,197
1 kg	2.5 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	30391417	759
500 g	1.2 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	30391416	356
300 g	0.75 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	30391415	273
200 g	0.5 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781143	264
100 g	0.25 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781141	164
50 g	0.12 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781139	154
30 g	0.074 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	30391411	146
20 g	0.074 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781135	140
10 g	0.05 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781133	140
5 g	0.034 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781131	140
3 g	0.034 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	30391407	127
2 g	0.034 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781127	127
1 g	0.034 mg	1	No Certificate	Cylindrical	Troemner Alloy 8	80781125	117



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781123	116
300 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	30391403	116
200 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781119	116
100 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781117	116
50 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781115	116
30 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	30391399	116
20 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781111	116
10 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781109	116
5 mg	0.01 mg	1	No Certificate	Flat	304 Stainless Steel	80781107	116
3 mg	0.01 mg	1	No Certificate	Flat	3003-H14 Aluminum	30391395	116
2 mg	0.01 mg	1	No Certificate	Flat	3003-H14 Aluminum	80781103	116
1 mg	0.01 mg	1	No Certificate	Flat	3003-H14 Aluminum	80781101	116



CLASS I IND WEIGHTS WITH TRACEABLE CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	125 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391607	15,074
30 kg	75 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391606	9,557
25 kg	62 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391605	7,085
20 kg	50 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391604	4,968
10 kg	25 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391603	3,356
5 kg	12 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391602	1,939
3 kg	7.5 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391601	1,743
2 kg	5 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391600	1,318
1 kg	2.5 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391599	891
500 g	1.2 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391598	433
300 g	0.75 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391597	364
200 g	0.5 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391596	337
100 g	0.25 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391595	226
50 g	0.12 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391594	218
30 g	0.074 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391593	211
20 g	0.074 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391592	206
10 g	0.05 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391591	206
5 g	0.034 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391590	206
3 g	0.034 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391589	189
2 g	0.034 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391588	189
1 g	0.034 mg	1	Traceable	Cylindrical	Troemner Alloy 8	30391587	175



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391586	161
300 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391585	161
200 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391584	161
100 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391583	161
50 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391582	161
30 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391581	161
20 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391580	161
10 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391579	161
5 mg	0.01 mg	1	Traceable	Flat	304 Stainless Steel	30391578	161
3 mg	0.01 mg	1	Traceable	Flat	3003-H14 Aluminum	30391577	161
2 mg	0.01 mg	1	Traceable	Flat	3003-H14 Aluminum	30391576	161
1 mg	0.01 mg	1	Traceable	Flat	3003-H14 Aluminum	30391575	161



CLASS I IND WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	125 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391458	15,338
30 kg	75 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391457	10,260
25 kg	62 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391456	7,349
20 kg	50 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391455	5,030
10 kg	25 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391454	3,430
5 kg	12 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391453	2,153
3 kg	7.5 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391452	1,775
2 kg	5 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391451	1,411
1 kg	2.5 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	30391450	985
500 g	1.2 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	30391449	506
300 g	0.75 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	30391448	422
200 g	0.5 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781144	408
100 g	0.25 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781142	243
50 g	0.12 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781140	233
30 g	0.074 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	30391444	227
20 g	0.074 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781136	225
10 g	0.05 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781134	223
5 g	0.034 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781132	218
3 g	0.034 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	30391440	206
2 g	0.034 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781128	206
1 g	0.034 mg	1	NVLAP	Cylindrical	Troemner Alloy 8	80781126	189



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781124	183
300 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	30391436	183
200 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781120	183
100 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781118	183
50 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781116	183
30 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	30391432	183
20 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781112	183
10 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781110	183
5 mg	0.01 mg	1	NVLAP	Flat	304 Stainless Steel	80781108	183
3 mg	0.01 mg	1	NVLAP	Flat	3003-H14 Aluminum	30391428	183
2 mg	0.01 mg	1	NVLAP	Flat	3003-H14 Aluminum	80781104	183
1 mg	0.01 mg	1	NVLAP	Flat	3003-H14 Aluminum	80781102	183



CLASS 4 IND WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	1 g	4	No Certificate	Cylindrical	316 Stainless Steel	30391295	13,406
30 kg	600 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391294	8,359
25 kg	500 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391293	6,335
20 kg	400 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391292	3,488
10 kg	200 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391291	2,208
5 kg	100 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391290	1,630
3 kg	60 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391289	1,342
2 kg	40 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391288	1,054
1 kg	20 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391287	672
500 g	10 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391286	312
300 g	6 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391285	221
200 g	4 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391284	194
100 g	2 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780063	131
50 g	1.2 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780075	131
30 g	0.9 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391281	111
20 g	0.7 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780068	111
10 g	0.5 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780062	103
5 g	0.36 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780074	81
3 g	0.3 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	30391277	81
2 g	0.26 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780067	81
1 g	0.2 mg	4	No Certificate	Cylindrical	Troemner Alloy 8	80780061	81



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.16 mg	4	No Certificate	Flat	304 Stainless Steel	80780073	51
300 mg	0.14 mg	4	No Certificate	Flat	304 Stainless Steel	30391273	51
200 mg	0.12 mg	4	No Certificate	Flat	304 Stainless Steel	80780066	51
100 mg	0.1 mg	4	No Certificate	Flat	304 Stainless Steel	80780060	51
50 mg	0.085 mg	4	No Certificate	Flat	304 Stainless Steel	80780072	51
30 mg	0.075 mg	4	No Certificate	Flat	304 Stainless Steel	30391269	51
20 mg	0.07 mg	4	No Certificate	Flat	304 Stainless Steel	80780065	51
10 mg	0.06 mg	4	No Certificate	Flat	304 Stainless Steel	80780059	51
5 mg	0.055 mg	4	No Certificate	Flat	304 Stainless Steel	80780071	51
3 mg	0.052 mg	4	No Certificate	Flat	3003-H14 Aluminum	30391265	51
2 mg	0.05 mg	4	No Certificate	Flat	3003-H14 Aluminum	80780064	51
1 mg	0.05 mg	4	No Certificate	Flat	3003-H14 Aluminum	80780058	51



CLASS 4 IND WEIGHTS WITH TRACEABLE CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	1 g	4	Traceable	Cylindrical	316 Stainless Steel	30391108	13,419
30 kg	600 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391107	8,435
25 kg	500 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391106	6,459
20 kg	400 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391105	3,549
10 kg	200 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391104	2,245
5 kg	100 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391103	1,725
3 kg	60 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391102	1,411
2 kg	40 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391101	1,217
1 kg	20 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391100	748
500 g	10 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391099	322
300 g	6 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391098	254
200 g	4 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391097	237
100 g	2 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391096	171
50 g	1.2 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391095	161
30 g	0.9 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391094	161
20 g	0.7 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391093	146
10 g	0.5 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391092	146
5 g	0.36 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391091	125
3 g	0.3 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391090	120
2 g	0.26 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391089	120
1 g	0.2 mg	4	Traceable	Cylindrical	Troemner Alloy 8	30391088	120



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.16 mg	4	Traceable	Flat	304 Stainless Steel	30391087	103
300 mg	0.14 mg	4	Traceable	Flat	304 Stainless Steel	30391086	103
200 mg	0.12 mg	4	Traceable	Flat	304 Stainless Steel	30391085	103
100 mg	0.1 mg	4	Traceable	Flat	304 Stainless Steel	30391084	103
50 mg	0.085 mg	4	Traceable	Flat	304 Stainless Steel	30391083	103
30 mg	0.075 mg	4	Traceable	Flat	304 Stainless Steel	30391082	103
20 mg	0.07 mg	4	Traceable	Flat	304 Stainless Steel	30391081	103
10 mg	0.06 mg	4	Traceable	Flat	304 Stainless Steel	30391080	103
5 mg	0.055 mg	4	Traceable	Flat	304 Stainless Steel	30391079	103
3 mg	0.052 mg	4	Traceable	Flat	3003-H14 Aluminum	30391078	103
2 mg	0.05 mg	4	Traceable	Flat	3003-H14 Aluminum	30391077	103
1 mg	0.05 mg	4	Traceable	Flat	3003-H14 Aluminum	30391076	103



CLASS 4 IND WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	1 g	4	NVLAP	Cylindrical	316 Stainless Steel	30391328	13,594
30 kg	600 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391327	8,653
25 kg	500 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391326	6,668
20 kg	400 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391325	3,782
10 kg	200 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391324	2,785
5 kg	100 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391323	1,906
3 kg	60 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391322	1,512
2 kg	40 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391321	1,273
1 kg	20 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391320	809
500 g	10 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391319	427
300 g	6 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391318	336
200 g	4 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391317	312
100 g	2 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850287	205
50 g	1.2 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850297	202
30 g	0.9 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391314	204
20 g	0.7 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850292	189
10 g	0.5 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850286	185
5 g	0.36 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850296	179
3 g	0.3 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	30391310	179
2 g	0.26 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850291	180
1 g	0.2 mg	4	NVLAP	Cylindrical	Troemner Alloy 8	80850285	169



Flat

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.16 mg	4	NVLAP	Flat	304 Stainless Steel	80850295	145
300 mg	0.14 mg	4	NVLAP	Flat	304 Stainless Steel	30391306	149
200 mg	0.12 mg	4	NVLAP	Flat	304 Stainless Steel	80850290	149
100 mg	0.1 mg	4	NVLAP	Flat	304 Stainless Steel	80850284	149
50 mg	0.085 mg	4	NVLAP	Flat	304 Stainless Steel	80850294	149
30 mg	0.075 mg	4	NVLAP	Flat	304 Stainless Steel	30391302	149
20 mg	0.07 mg	4	NVLAP	Flat	304 Stainless Steel	80850289	149
10 mg	0.06 mg	4	NVLAP	Flat	304 Stainless Steel	80850283	149
5 mg	0.055 mg	4	NVLAP	Flat	304 Stainless Steel	80850293	149
3 mg	0.052 mg	4	NVLAP	Flat	3003-H14 Aluminum	30391298	149
2 mg	0.05 mg	4	NVLAP	Flat	3003-H14 Aluminum	80850288	149
1 mg	0.05 mg	4	NVLAP	Flat	3003-H14 Aluminum	80850282	149



CLASS I EB WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	75 mg	1	No Certificate	Grip Handle	303 Stainless Steel	80781007	2,985
25 kg	62 mg	1	No Certificate	Grip Handle	303 Stainless Steel	30391488	2,547
24 kg	56 mg	1	No Certificate	Grip Handle	303 Stainless Steel	30391487	2,473
20 kg	50 mg	1	No Certificate	Grip Handle	303 Stainless Steel	80781005	2,136
16 kg	37.5 mg	1	No Certificate	Grip Handle	303 Stainless Steel	30391485	1,980
10 kg	25 mg	1	No Certificate	Grip Handle	303 Stainless Steel	80781003	1,418
8 kg	18.5 mg	1	No Certificate	Grip Handle	303 Stainless Steel	30391483	1,381
5 kg	12 mg	1	No Certificate	Grip Handle	303 Stainless Steel	80781001	1,035
4 kg	9.75 mg	1	No Certificate	Grip Handle	303 Stainless Steel	30391480	974



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	12 mg	1	No Certificate	Cylindrical	303 Stainless Steel	30391481	942
4 kg	9.75 mg	1	No Certificate	Cylindrical	303 Stainless Steel	80780027	824
3 kg	7.5 mg	1	No Certificate	Cylindrical	303 Stainless Steel	30391478	488
2 kg	5 mg	1	No Certificate	Cylindrical	303 Stainless Steel	80780024	297
1,500 g	3.75 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391476	272
1,000 g	2.5 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780021	263
600 g	1.85 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391474	258
500 g	1.2 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780029	205
400 g	0.975 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780026	202
300 g	0.75 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391471	186
200 g	0.5 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780023	180
160 g	0.375 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391469	174
150 g	0.375 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391468	155
100 g	0.25 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780020	150
80 g	0.185 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391466	144
70 g	0.185 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391465	140
60 g	0.185 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391464	132
50 g	0.12 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780028	129
40 g	0.097 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780025	129
30 g	0.074 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391461	129
20 g	0.074 mg	1	No Certificate	Cylindrical	316 Stainless Steel	80780022	129
10 g	0.05 mg	1	No Certificate	Cylindrical	316 Stainless Steel	30391459	129

CLASS I EB WEIGHTS WITH TRACEABLE CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	75 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391520	3,302
25 kg	62 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391519	2,704
24 kg	56 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391518	2,647
20 kg	50 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391517	2,304
16 kg	37.5 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391516	2,092
10 kg	25 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391515	1,586
8 kg	18.5 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391514	1,505
5 kg	12 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391513	1,131
4 kg	9.75 mg	1	Traceable	Grip Handle	303 Stainless Steel	30391511	1,031



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	12 mg	1	Traceable	Cylindrical	303 Stainless Steel	30391512	1,054
4 kg	9.75 mg	1	Traceable	Cylindrical	303 Stainless Steel	30391510	949
3 kg	7.5 mg	1	Traceable	Cylindrical	303 Stainless Steel	30391509	611
2 kg	5 mg	1	Traceable	Cylindrical	303 Stainless Steel	30391508	407
1,500 g	3.75 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391507	399
1,000 g	2.5 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391506	383
600 g	1.85 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391505	341
500 g	1.2 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391504	301
400 g	0.975 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391503	288
300 g	0.75 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391502	271
200 g	0.5 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391501	263
160 g	0.375 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391500	259
150 g	0.375 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391499	242
100 g	0.25 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391498	205
80 g	0.185 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391497	201
70 g	0.185 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391496	196
60 g	0.185 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391495	193
50 g	0.12 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391494	188
40 g	0.097 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391493	188
30 g	0.074 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391492	188
20 g	0.074 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391491	188
10 g	0.05 mg	1	Traceable	Cylindrical	316 Stainless Steel	30391490	188

CLASS I EB WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	75 mg	1	NVLAP	Grip Handle	303 Stainless Steel	80781008	3,434
25 kg	62 mg	1	NVLAP	Grip Handle	303 Stainless Steel	30391537	2,746
24 kg	56 mg	1	NVLAP	Grip Handle	303 Stainless Steel	30391536	2,640
20 kg	50 mg	1	NVLAP	Grip Handle	303 Stainless Steel	80781006	2,322
16 kg	37.5 mg	1	NVLAP	Grip Handle	303 Stainless Steel	30391535	2,123
10 kg	25 mg	1	NVLAP	Grip Handle	303 Stainless Steel	80781004	1,635
8 kg	18.5 mg	1	NVLAP	Grip Handle	303 Stainless Steel	30391534	1,548
5 kg	12 mg	1	NVLAP	Grip Handle	303 Stainless Steel	80781002	1,262
4 kg	9.75 mg	1	NVLAP	Grip Handle	303 Stainless Steel	30391532	1,198



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	12 mg	1	NVLAP	Cylindrical	303 Stainless Steel	30391533	1,150
4 kg	9.75 mg	1	NVLAP	Cylindrical	303 Stainless Steel	80850275	1,036
3 kg	7.5 mg	1	NVLAP	Cylindrical	303 Stainless Steel	30391531	713
2 kg	5 mg	1	NVLAP	Cylindrical	303 Stainless Steel	80850272	518
1,500 g	3.75 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391530	506
1,000 g	2.5 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850269	468
600 g	1.85 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391529	441
500 g	1.2 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850277	393
400 g	0.975 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850274	383
300 g	0.75 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391528	370
200 g	0.5 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850271	361
160 g	0.375 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391527	358
150 g	0.375 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391526	334
100 g	0.25 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850268	231
80 g	0.185 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391525	231
70 g	0.185 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391524	231
60 g	0.185 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391523	231
50 g	0.12 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850276	231
40 g	0.097 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850273	231
30 g	0.074 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391522	231
20 g	0.074 mg	1	NVLAP	Cylindrical	316 Stainless Steel	80850270	231
10 g	0.05 mg	1	NVLAP	Cylindrical	316 Stainless Steel	30391521	231

CLASS 4 EB WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	600 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391139	2,054
25 kg	500 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391138	1,842
24 kg	450 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391137	1,749
20 kg	400 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391136	1,492
16 kg	300 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391135	1,311
10 kg	200 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391134	1,005
8 kg	150 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391133	986
5 kg	100 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391132	687
4 kg	80 mg	4	No Certificate	Grip Handle	303 Stainless Steel	30391130	638



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	100 mg	4	No Certificate	Cylindrical	303 Stainless Steel	30391131	655
4 kg	80 mg	4	No Certificate	Cylindrical	303 Stainless Steel	30391129	644
3 kg	60 mg	4	No Certificate	Cylindrical	303 Stainless Steel	30391128	399
2 kg	40 mg	4	No Certificate	Cylindrical	303 Stainless Steel	80780145	253
1,500 g	30 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391126	251
1,000 g	20 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780143	238
600 g	15 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391124	223
500 g	10 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780141	173
400 g	8 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780139	173
300 g	6 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780137	155
200 g	4 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780135	152
160 g	3 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391119	146
150 g	3 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391118	132
100 g	2 mg	4	No Certificate	Cylindrical	316 Stainless Steel	80780133	129
80 g	1.6 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391116	125
70 g	1.6 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391115	120
60 g	1.6 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391114	118
50 g	1.2 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391113	114
40 g	1.05 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391112	107
30 g	0.9 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391111	107
20 g	0.7 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391110	107
10 g	0.5 mg	4	No Certificate	Cylindrical	316 Stainless Steel	30391109	107

CLASS 4 EB WEIGHTS WITH TRACEABLE CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	600 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391170	2,359
25 kg	500 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391169	1,878
24 kg	450 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391168	1,815
20 kg	400 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391167	1,605
16 kg	300 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391166	1,478
10 kg	200 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391165	1,106
8 kg	150 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391164	1,017
5 kg	100 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391163	751
4 kg	80 mg	4	Traceable	Grip Handle	303 Stainless Steel	30391161	725



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	100 mg	4	Traceable	Cylindrical	303 Stainless Steel	30391162	707
4 kg	80 mg	4	Traceable	Cylindrical	303 Stainless Steel	30391160	669
3 kg	60 mg	4	Traceable	Cylindrical	303 Stainless Steel	30391159	468
2 kg	40 mg	4	Traceable	Cylindrical	303 Stainless Steel	30391158	349
1,500 g	30 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391157	344
1,000 g	20 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391156	288
600 g	15 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391155	271
500 g	10 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391154	225
400 g	8 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391153	218
300 g	6 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391152	207
200 g	4 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391151	206
160 g	3 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391150	200
150 g	3 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391149	205
100 g	2 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391148	166
80 g	1.6 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391147	154
70 g	1.6 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391146	154
60 g	1.6 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391145	154
50 g	1.2 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391144	153
40 g	1.05 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391143	144
30 g	0.9 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391142	144
20 g	0.7 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391141	144
10 g	0.5 mg	4	Traceable	Cylindrical	316 Stainless Steel	30391140	144

CLASS 4 EB WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



Grip Handle

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
30 kg	600 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391194	2,535
25 kg	500 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391193	2,010
24 kg	450 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391192	1,954
20 kg	400 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391191	1,710
16 kg	300 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391190	1,586
10 kg	200 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391189	1,180
8 kg	150 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391188	1,087
5 kg	100 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391187	868
4 kg	80 mg	4	NVLAP	Grip Handle	303 Stainless Steel	30391185	781



Cylindrical

Weight Value	Weight Tolerance	ASTM Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 kg	100 mg	4	NVLAP	Cylindrical	303 Stainless Steel	30391186	805
4 kg	80 mg	4	NVLAP	Cylindrical	303 Stainless Steel	30391184	762
3 kg	60 mg	4	NVLAP	Cylindrical	303 Stainless Steel	30391183	520
2 kg	40 mg	4	NVLAP	Cylindrical	303 Stainless Steel	80780146	375
1,500 g	30 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391182	456
1,000 g	20 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780144	329
600 g	15 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391181	310
500 g	10 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780142	296
400 g	8 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780140	277
300 g	6 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780138	264
200 g	4 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780136	260
160 g	3 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391180	286
150 g	3 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391179	286
100 g	2 mg	4	NVLAP	Cylindrical	316 Stainless Steel	80780134	193
80 g	1.6 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391178	193
70 g	1.6 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391177	193
60 g	1.6 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391176	193
50 g	1.2 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391175	184
40 g	1.05 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391174	184
30 g	0.9 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391173	184
20 g	0.7 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391172	184
10 g	0.5 mg	4	NVLAP	Cylindrical	316 Stainless Steel	30391171	184

CLASS I WEIGHT SETS WITHOUT CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



1

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	1	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391360	31,803
50 kg - 1 mg	1	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 10 kg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391359	32,481
30 kg - 1 g	1	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391358	22,348
30 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391357	23,125
25 kg - 1 g	1	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391356	21,897
25 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391355	22,574
20 kg - 1 g	1	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391354	14,223
20 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391353	16,479
10 kg - 1 g	1	-	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391352	11,169
10 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391351	11,732
5 kg - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391350	7,626
5 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391349	8,353
(2) 2 kg - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390054	6,095
(2) 2 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390053	6,547
2 kg - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391348	4,973
2 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391347	5,876
1 kg - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391346	3,724
1 kg - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391345	4,572
500 g - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391344	2,527
500 g - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391343	3,430
(2) 200 g - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	80781033	1,380
(2) 200 g - 1 mg	1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781031	2,025
200 g - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391342	1,235
200 g - 1 mg	1	-	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391341	1,850
100 g - 1 g	1	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	80781029	1,058
100 g - 100 mg	1	-	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391340	1,255
100 g - 10 mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391339	1,537
100 g - 5 mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391338	1,625
100g - 1mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781027	1,749
50 g - 1 g	1	-	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	80781025	1,023
50 g - 100 mg	1	-	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391337	1,235
50 g - 10 mg	1	-	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391336	1,426
50 g - 5 mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391335	1,518
50 g - 1 mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781023	1,681
20 g - 1 g	1	-	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391334	953
20 g - 100 mg	1	-	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391333	1,148
20 g - 10 mg	1	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391332	1,362
20 g - 5 mg	1	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391331	1,416
20 g - 1 mg	1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391330	1,651
500 mg - 10 mg	1	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391329	690
500 mg - 1 mg	1	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80781021	967

CLASS I WEIGHT SETS WITH TRACEABLE CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



1

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	1	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391574	34,689
50 kg - 1 mg	1	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391573	36,030
30 kg - 1 g	1	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391572	24,694
30 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391571	25,797
25 kg - 1 g	1	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391570	22,462
25 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391569	23,588
20 kg - 1 g	1	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391568	15,801
20 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391567	17,018
10 kg - 1 g	1	Traceable	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391566	11,569
10 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391565	12,791
5 kg - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391564	8,573
5 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391563	9,682
(2) 2 kg - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390060	7,006
(2) 2 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390059	8,233
2 kg - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391562	5,511
2 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391561	6,668
1 kg - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391560	4,385
1 kg - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391559	5,544
500 g - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391558	3,186
500 g - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391557	4,408
(2) 200 g - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390058	1,939
(2) 200 g - 1 mg	1	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390057	3,124
200 g - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391556	1,687
200 g - 1 mg	1	Traceable	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391555	2,785
100 g - 1 g	1	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30391554	1,387
100 g - 100 mg	1	Traceable	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391553	1,719
100 g - 10 mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391552	2,170
100 g - 5 mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391551	2,196
(2) 2g - 1mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391550	2,484
50 g - 1 g	1	Traceable	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30391549	1,392
50 g - 100 mg	1	Traceable	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391548	1,657
50 g - 10 mg	1	Traceable	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391547	1,971
50 g - 5 mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391546	2,101
50 g - 1 mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391545	2,377
20 g - 1 g	1	Traceable	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391544	1,137
20 g - 100 mg	1	Traceable	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391543	1,462
20 g - 10 mg	1	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391542	1,894
20 g - 5 mg	1	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391541	1,932
20 g - 1 mg	1	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391540	2,265
500 mg - 10 mg	1	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391539	1,117
500 mg - 1 mg	1	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30391538	1,386

CLASS I WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



1

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391392	35,203
50 kg - 1 mg	1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391391	36,482
30 kg - 1 g	1	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391390	25,258
30 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391389	26,699
25 kg - 1 g	1	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391388	22,888
25 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391387	24,278
20 kg - 1 g	1	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391386	16,354
20 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391385	17,857
10 kg - 1 g	1	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391384	12,197
10 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391383	13,683
5 kg - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391382	9,117
5 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391381	10,629
(2) 2kg - 1g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390056	7,550
(2) 2kg - 1mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390055	9,054
2 kg - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391380	6,007
2 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391379	7,520
1 kg - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391378	4,854
1 kg - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391377	6,358
500 g - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391376	3,631
500 g - 1 mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391375	5,349
(2) 200 g - 1g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	80781034	2,232
(2) 200 g - 1mg	1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781032	3,969
200 g - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391374	1,964
200 g - 1 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391373	3,655
100 g - 1 g	1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	80781030	1,832
100 g - 100 mg	1	NVLAP	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391372	2,313
100 g - 10 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391371	2,954
100 g - 5 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391370	2,684
100 g - 1 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781028	3,436
50 g - 1 g	1	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	80781026	1,757
50 g - 100 mg	1	NVLAP	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391369	2,213
50 g - 10 mg	1	NVLAP	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391368	2,753
50 g - 5 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391367	2,867
50 g - 1 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80781024	3,211
20 g - 1 g	1	NVLAP	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391366	1,337
20 g - 100 mg	1	NVLAP	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391365	1,832
20 g - 10 mg	1	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391364	2,232
20 g - 5 mg	1	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391363	2,346
20 g - 1 mg	1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391362	2,904
500 mg - 10 mg	1	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391361	1,475
500 mg - 1 mg	1	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80781022	1,763

CLASS 4 WEIGHT SETS WITHOUT CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



4

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	4	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391228	26,173
50 kg - 1 mg	4	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391227	26,562
30 kg - 1 g	4	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391226	18,272
30 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391225	19,025
25 kg - 1 g	4	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391224	17,721
25 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391223	18,610
20 kg - 1 g	4	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391222	11,676
20 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391221	13,695
10 kg - 1 g	4	-	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391220	9,136
10 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391219	9,645
5 kg - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391218	6,296
5 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391217	6,841
(2) 2 kg - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390048	4,973
(2) 2 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390047	5,844
2 kg - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391216	4,107
2 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391215	4,785
1 kg - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391214	3,098
1 kg - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391213	3,800
500g - 1g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391212	2,077
500 g - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391211	2,671
(2) 200 g - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390046	1,105
(2) 200 g - 1 mg	4	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390045	1,425
200 g - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391210	946
200 g - 1 mg	4	-	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391209	1,299
100 g - 1 g	4	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30391208	873
100 g - 100 mg	4	-	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391207	1,000
100 g - 10 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391206	1,192
100 g - 5 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391205	1,203
100 g - 1 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780101	1,230
50 g - 1 g	4	-	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30391204	672
50 g - 100 mg	4	-	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391203	809
50 g - 10 mg	4	-	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391202	935
50 g - 5 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391201	967
50 g - 1 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780111	1,058
20 g - 1 g	4	-	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391200	557
20 g - 100 mg	4	-	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391199	665
20 g - 10 mg	4	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391198	741
20 g - 5 mg	4	-	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391197	809
20 g - 1 mg	4	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391196	898
500 mg - 10 mg	4	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391195	341
500 mg - 1 mg	4	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780100	498

CLASS 4 WEIGHT SETS WITH TRACEABLE CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



4

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	4	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391075	30,035
50 kg - 1 mg	4	Traceable	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391074	31,138
30 kg - 1 g	4	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391073	21,296
30 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391072	22,247
25 kg - 1 g	4	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391071	19,465
25 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391070	20,479
20 kg - 1 g	4	Traceable	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391069	13,683
20 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391068	14,699
10 kg - 1 g	4	Traceable	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391067	10,014
10 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391066	11,019
5 kg - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391065	7,344
5 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391064	8,451
(2) 2 kg - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390044	6,120
(2) 2 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390043	7,123
2 kg - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391063	4,791
2 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391062	5,756
1 kg - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391061	3,787
1 kg - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391060	4,791
500 g - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391059	2,759
500 g - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391058	3,770
(2) 200 g - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390042	1,267
(2) 200 g - 1 mg	4	Traceable	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390041	2,058
200 g - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391057	1,192
200 g - 1 mg	4	Traceable	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391056	1,750
100 g - 1 g	4	Traceable	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30391055	1,073
100 g - 100 mg	4	Traceable	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391054	1,299
100 g - 10 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391053	1,486
100 g - 5 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391052	1,651
100 g - 1 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391051	1,726
50 g - 1 g	4	Traceable	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30391050	828
50 g - 100 mg	4	Traceable	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391049	1,035
50 g - 10 mg	4	Traceable	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391048	1,337
50 g - 5 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391047	1,582
50 g - 1 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391046	1,630
20 g - 1 g	4	Traceable	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391045	701
20 g - 100 mg	4	Traceable	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391044	898
20 g - 10 mg	4	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391043	1,068
20 g - 5 mg	4	Traceable	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391042	1,248
20 g - 1 mg	4	Traceable	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391041	1,393
500 mg - 10 mg	4	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391040	671
500 mg - 1 mg	4	Traceable	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30391039	815

CLASS 4 WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



4

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	4	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391262	30,952
50 kg - 1 mg	4	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391261	31,704
30 kg - 1 g	4	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391260	21,884
30 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391259	23,151
25 kg - 1 g	4	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391258	19,891
25 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391257	21,144
20 kg - 1 g	4	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391256	14,222
20 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391255	15,614
10 kg - 1 g	4	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391254	10,578
10 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391253	11,889
5 kg - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30391252	7,932
5 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30391251	9,035
(2) 2 kg - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390052	6,522
(2) 2 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390051	8,045
2 kg - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30391250	5,287
2 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391249	6,684
1 kg - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30391248	4,409
1 kg - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391247	5,538
500 g - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30391246	3,211
500 g - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30391245	4,458
(2) 200 g - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390050	1,593
(2) 200 g - 1 mg	4	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390049	2,661
200 g - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30391244	1,387
200 g - 1 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391243	2,452
100 g - 1 g	4	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30391242	1,242
100 g - 100 mg	4	NVLAP	10 g; (2) 20 g; 100 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391241	1,681
100 g - 10 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 50 mg	30391240	2,013
100 g - 5 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391239	2,083
100 g - 1 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80850265	2,357
50 g - 1 g	4	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30391238	1,142
50 g - 100 mg	4	NVLAP	10 g; (2) 20 g; 100 mg; (2) 2 g; (2) 200 mg; 1 g; 50 g; 5 g; 500 mg	30391237	1,462
50 g - 10 mg	4	NVLAP	10 g; (2) 20 g; 100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 50 g; 5 g; 50 mg; 500 mg	30391236	1,964
50 g - 5 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 50 mg	30391235	2,146
50 g - 1 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80850264	2,213
20 g - 1 g	4	NVLAP	10 g; 20 g; (2) 2 g; 1 g; 5 g	30391234	1,004
20 g - 100 mg	4	NVLAP	10 g; 100 mg; 20 g; (2) 2 g; (2) 200 mg; 1 g; 5 g; 500 mg	30391233	1,180
20 g - 10 mg	4	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 50 mg; 500 mg	30391232	1,436
20 g - 5 mg	4	NVLAP	10 g; 100 mg; 20 g; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; 50 mg; 500 mg	30391231	1,725
20 g - 1 mg	4	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; 100 mg; 20 g; 10 mg; (2) 200 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30391230	1,980
500 mg - 10 mg	4	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 50 mg; 500 mg	30391229	1,086
500 mg - 1 mg	4	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80850263	1,185

E1 IND WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	25 mg	E1	NVLAP	Cylindrical	316 Stainless Steel	30390927	15,117
20 kg	10 mg	E1	NVLAP	Cylindrical	316 Stainless Steel	30390928	6,872
10 kg	5 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390929	4,527
5 kg	2.5 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390930	3,359
2 kg	1 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390931	2,448
1 kg	0.5 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390932	1,673
500 g	0.25 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390933	1,373
200 g	0.1 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390934	1,124
100 g	0.05 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390935	985
50 g	0.03 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390936	887
20 g	0.025 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390937	843
10 g	0.02 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390938	805
5 g	0.016 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390939	768
2 g	0.012 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390940	750
1 g	0.01 mg	E1	NVLAP	Cylindrical	Troemner Alloy 8	30390941	750



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.005 mg	E1	NVLAP	Flat	304 Stainless Steel	30390942	402
200 mg	0.003 mg	E1	NVLAP	Flat	304 Stainless Steel	30390943	402
100 mg	0.005 mg	E1	NVLAP	Flat	304 Stainless Steel	30390944	402
50 mg	0.004 mg	E1	NVLAP	Flat	304 Stainless Steel	30390945	402
20 mg	0.003 mg	E1	NVLAP	Flat	304 Stainless Steel	30390946	402
10 mg	0.003 mg	E1	NVLAP	Flat	304 Stainless Steel	30390947	402
5 mg	0.003 mg	E1	NVLAP	Flat	304 Stainless Steel; Aluminum	30390948	402
2 mg	0.003 mg	E1	NVLAP	Flat	3003-H14 Aluminum	30390949	402
1 mg	0.003 mg	E1	NVLAP	Flat	3003-H14 Aluminum	30390950	402

E2 IND WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	80 mg	E2	NVLAP	Cylindrical	316 Stainless Steel	30390903	13,395
20 kg	30 mg	E2	NVLAP	Cylindrical	316 Stainless Steel	80780306	4,351
10 kg	16 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780305	3,364
5 kg	8 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780304	1,931
2 kg	3 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780303	1,219
1 kg	1.6 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780302	906
500 g	0.8 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780301	630
200 g	0.3 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780300	500
100 g	0.16 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780299	377
50 g	0.1 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780298	339
20 g	0.05 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780297	327
10 g	0.06 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780296	315
5 g	0.05 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780295	308
2 g	0.04 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780294	298
1 g	0.03 mg	E2	NVLAP	Cylindrical	Troemner Alloy 8	80780293	298



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.025 mg	E2	NVLAP	Flat	304 Stainless Steel	80780292	186
200 mg	0.02 mg	E2	NVLAP	Flat	304 Stainless Steel	80780291	186
100 mg	0.016 mg	E2	NVLAP	Flat	304 Stainless Steel	80780290	186
50 mg	0.012 mg	E2	NVLAP	Flat	304 Stainless Steel	80780289	186
20 mg	0.01 mg	E2	NVLAP	Flat	304 Stainless Steel	80780288	186
10 mg	0.008 mg	E2	NVLAP	Flat	304 Stainless Steel	80780287	186
5 mg	0.006 mg	E2	NVLAP	Flat	304 Stainless Steel; Aluminum	80780286	186
2 mg	0.006 mg	E2	NVLAP	Flat	3003-H14 Aluminum	80780285	186
1 mg	0.006 mg	E2	NVLAP	Flat	3003-H14 Aluminum	80780284	186

FLAT WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	250 mg	F1	No Certificate	Cylindrical	316 Stainless Steel	80780330	9,550
20 kg	100 mg	F1	No Certificate	Cylindrical	316 Stainless Steel	80780329	3,458
10 kg	50 mg	F1	No Certificate	Cylindrical	316 Stainless Steel	80780328	2,497
5 kg	25 mg	F1	No Certificate	Cylindrical	316 Stainless Steel	80780327	1,462
2 kg	10 mg	F1	No Certificate	Cylindrical	316 Stainless Steel	80780326	868
1 kg	5 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780325	606
500 g	2.5 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780324	349
200 g	1 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780323	272
100 g	0.5 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780322	193
50 g	0.3 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780321	171
20 g	0.25 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780320	171
10 g	0.2 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780319	171
5 g	0.16 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780318	171
2 g	0.12 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780317	171
1 g	0.1 mg	F1	No Certificate	Cylindrical	Troemner Alloy 8	80780316	171



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.08 mg	F1	No Certificate	Flat	304 Stainless Steel	80780315	70
200 mg	0.06 mg	F1	No Certificate	Flat	304 Stainless Steel	80780314	70
100 mg	0.05 mg	F1	No Certificate	Flat	304 Stainless Steel	80780313	70
50 mg	0.04 mg	F1	No Certificate	Flat	304 Stainless Steel	80780312	70
20 mg	0.03 mg	F1	No Certificate	Flat	304 Stainless Steel	80780311	70
10 mg	0.025 mg	F1	No Certificate	Flat	304 Stainless Steel	80780310	70
5 mg	0.02 mg	F1	No Certificate	Flat	304 Stainless Steel; Aluminum	80780309	70
2 mg	0.02 mg	F1	No Certificate	Flat	3003-H14 Aluminum	80780308	70
1 mg	0.02 mg	F1	No Certificate	Flat	3003-H14 Aluminum	80780307	70

FLAT WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	250 mg	F1	NVLAP	Cylindrical	316 Stainless Steel	30390901	9,637
20 kg	100 mg	F1	NVLAP	Cylindrical	316 Stainless Steel	80780353	3,639
10 kg	50 mg	F1	NVLAP	Cylindrical	316 Stainless Steel	80780352	2,667
5 kg	25 mg	F1	NVLAP	Cylindrical	316 Stainless Steel	80780351	1,673
2 kg	10 mg	F1	NVLAP	Cylindrical	316 Stainless Steel	80780350	1,079
1 kg	5 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780349	800
500 g	2.5 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780348	533
200 g	1 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780347	456
100 g	0.5 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780346	274
50 g	0.3 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780345	250
20 g	0.25 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780344	250
10 g	0.2 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780343	250
5 g	0.16 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780342	250
2 g	0.12 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780341	250
1 g	0.1 mg	F1	NVLAP	Cylindrical	Troemner Alloy 8	80780340	250



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.08 mg	F1	NVLAP	Flat	304 Stainless Steel	80780339	151
200 mg	0.06 mg	F1	NVLAP	Flat	304 Stainless Steel	80780338	151
100 mg	0.05 mg	F1	NVLAP	Flat	304 Stainless Steel	80780337	151
50 mg	0.04 mg	F1	NVLAP	Flat	304 Stainless Steel	80780336	151
20 mg	0.03 mg	F1	NVLAP	Flat	304 Stainless Steel	80780335	151
10 mg	0.025 mg	F1	NVLAP	Flat	304 Stainless Steel	80780334	151
5 mg	0.02 mg	F1	NVLAP	Flat	304 Stainless Steel; Aluminum	80780333	151
2 mg	0.02 mg	F1	NVLAP	Flat	3003-H14 Aluminum	80780332	151
1 mg	0.02 mg	F1	NVLAP	Flat	3003-H14 Aluminum	80780331	151

F2 IND WEIGHTS WITHOUT CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	800 mg	F2	No Certificate	Cylindrical	316 Stainless Steel	30390853	6,767
20 kg	300 mg	F2	No Certificate	Cylindrical	316 Stainless Steel	30390854	2,979
10 kg	160 mg	F2	No Certificate	Cylindrical	316 Stainless Steel	30390855	1,873
5 kg	80 mg	F2	No Certificate	Cylindrical	316 Stainless Steel	30390856	1,031
2 kg	30 mg	F2	No Certificate	Cylindrical	316 Stainless Steel	30390857	812
1 kg	16 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390858	521
500 g	8 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390859	349
200 g	3 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390860	264
100 g	1.6 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390861	164
50 g	1 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390862	164
20 g	0.8 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390863	164
10 g	0.6 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390864	164
5 g	0.5 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390865	164
2 g	0.4 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390866	164
1 g	0.3 mg	F2	No Certificate	Cylindrical	Troemner Alloy 8	30390867	164



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.25 mg	F2	No Certificate	Flat	304 Stainless Steel	30390868	64
200 mg	0.2 mg	F2	No Certificate	Flat	304 Stainless Steel	30390869	64
100 mg	0.16 mg	F2	No Certificate	Flat	304 Stainless Steel	30390870	64
50 mg	0.12 mg	F2	No Certificate	Flat	304 Stainless Steel	30390871	64
20 mg	0.1 mg	F2	No Certificate	Flat	304 Stainless Steel	30390872	64
10 mg	0.08 mg	F2	No Certificate	Flat	304 Stainless Steel	30390873	64
5 mg	0.06 mg	F2	No Certificate	Flat	304 Stainless Steel; Aluminum	30390874	64
2 mg	0.06 mg	F2	No Certificate	Flat	3003-H14 Aluminum	30390875	64
1 mg	0.06 mg	F2	No Certificate	Flat	3003-H14 Aluminum	30390876	64

F2 IND WEIGHTS WITH NVLAP CERTIFICATE

Individual Calibration Weights Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



Cylindrical

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
50 kg	800 mg	F2	NVLAP	Cylindrical	316 Stainless Steel	30390877	6,942
20 kg	300 mg	F2	NVLAP	Cylindrical	316 Stainless Steel	30390878	3,258
10 kg	160 mg	F2	NVLAP	Cylindrical	316 Stainless Steel	30390879	2,092
5 kg	80 mg	F2	NVLAP	Cylindrical	316 Stainless Steel	30390880	1,236
2 kg	30 mg	F2	NVLAP	Cylindrical	316 Stainless Steel	30390881	1,031
1 kg	16 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390882	712
500 g	8 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390883	533
200 g	3 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390884	448
100 g	1.6 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390885	243
50 g	1 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390886	243
20 g	0.8 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390887	243
10 g	0.6 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390888	193
5 g	0.5 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390889	243
2 g	0.4 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390890	243
1 g	0.3 mg	F2	NVLAP	Cylindrical	Troemner Alloy 8	30390891	243



Flat

Weight Value	Weight Tolerance	OIML Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
500 mg	0.25 mg	F2	NVLAP	Flat	304 Stainless Steel	30390892	144
200 mg	0.2 mg	F2	NVLAP	Flat	304 Stainless Steel	30390893	144
100 mg	0.16 mg	F2	NVLAP	Flat	304 Stainless Steel	30390894	144
50 mg	0.12 mg	F2	NVLAP	Flat	304 Stainless Steel	30390895	144
20 mg	0.1 mg	F2	NVLAP	Flat	304 Stainless Steel	30390896	144
10 mg	0.08 mg	F2	NVLAP	Flat	304 Stainless Steel	30390897	144
5 mg	0.06 mg	F2	NVLAP	Flat	304 Stainless Steel; Aluminum	30390898	144
2 mg	0.06 mg	F2	NVLAP	Flat	3003-H14 Aluminum	30390899	144
1 mg	0.06 mg	F2	NVLAP	Flat	3003-H14 Aluminum	30390900	144

E1 WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



E1

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	E1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390904	56,949
50 kg - 1 mg	E1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390905	58,759
20 kg - 1 g	E1	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390906	27,126
20 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390907	#N/A
10 kg - 1 g	E1	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390908	21,695
10 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390909	22,420
5 kg - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390911	16,129
5 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390912	17,365
2 kg - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390913	10,137
2 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390914	12,895
(2) 2 kg - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390037	12,115
(2) 2 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390038	14,469
1 kg - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390915	8,508
1 kg - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390916	10,673
500 g - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390917	7,236
500 g - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390918	9,768
200 g - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390919	6,160
200 g - 1 mg	E1	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390920	7,841
(2) 200 g - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390039	#N/A
(2) 200 g - 1 mg	E1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390040	8,140
100 g - 1 g	E1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390921	#N/A
100 g - 1 mg	E1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390922	7,598
50 g - 1 g	E1	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390923	#N/A
50 g - 1 mg	E1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390924	#N/A
500 mg - 1 mg	E1	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390926	3,078
5 g - 1 mg	E1	NVLAP	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390925	4,887
5 kg - 1 kg	E1	NVLAP	(2) 2 kg; 1 kg; 5 kg	30390910	10,137

E2 WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



E2

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	E2	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780407	32,732
50 kg - 1 mg	E2	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780406	33,267
20 kg - 1 g	E2	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780405	16,129
20 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780404	17,077
10 kg - 1 g	E2	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780403	12,115
10 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780402	12,482
5 kg - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780400	8,328
5 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780399	9,593
2 kg - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	80780398	5,787
2 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780397	7,061
(2) 2 kg - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	80780396	6,617
(2) 2 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780395	7,328
1 kg - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	80780394	5,243
1 kg - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780393	6,827
500 g - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	80780392	3,620
500 g - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780391	4,563
200 g - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	80780390	2,359
200 g - 1 mg	E2	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780389	4,139
(2) 200 g - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	80780388	3,264
(2) 200 g - 1 mg	E2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780387	3,990
100 g - 1 g	E2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	80780386	1,867
100 g - 1 mg	E2	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780385	3,065
50 g - 1 g	E2	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	80780384	1,635
50 g - 1 mg	E2	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780383	2,715
500 mg - 1 mg	E2	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780381	1,854
5 g - 1 mg	E2	NVLAP	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780382	2,128
5 kg - 1 kg	E2	NVLAP	(2) 2 kg; 1 kg; 5 kg	80780401	5,592

FI WEIGHT SETS WITHOUT CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



F1

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	F1	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780433	20,973
50 kg - 1 mg	F1	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780434	21,733
20 kg - 1 g	F1	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780432	12,958
20 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780431	13,319
10 kg - 1 g	F1	-	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780430	9,862
10 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780429	10,206
5 kg - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780427	6,098
5 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780426	6,486
2 kg - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	80780425	4,051
2 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780424	5,244
(2) 2 kg - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	80780423	4,788
(2) 2 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780422	5,481
1 kg - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	80780421	3,571
1 kg - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780420	3,852
500 g - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	80780419	2,023
500 g - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780418	2,710
200 g - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	80780417	1,423
200 g - 1 mg	F1	-	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780416	2,242
(2) 200 g - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	80780415	1,548
(2) 200 g - 1 mg	F1	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780414	2,297
100 g - 1 g	F1	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	80780413	1,055
100 g - 1 mg	F1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780412	1,592
50 g - 1 g	F1	-	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	80780411	911
50 g - 1 mg	F1	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780410	1,505
500 mg - 1 mg	F1	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780408	781
5 g - 1 mg	F1	-	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780409	894
5 kg - 1 kg	F1	-	(2) 2 kg; 1 kg; 5 kg	80780428	4,868

F1 WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



F1

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	F1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780461	23,517
50 kg - 1 mg	F1	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780460	24,430
20 kg - 1 g	F1	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780459	14,829
20 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780458	15,791
10 kg - 1 g	F1	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780457	11,578
10 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780456	12,396
5 kg - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	80780454	7,678
5 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	80780453	8,533
2 kg - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	80780452	5,280
2 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780451	6,767
(2) 2 kg - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	80780450	6,192
(2) 2 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780449	6,985
1 kg - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	80780448	4,919
1 kg - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780447	6,154
500 g - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	80780446	2,953
500 g - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	80780445	4,350
200 g - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	80780444	2,223
200 g - 1 mg	F1	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780443	3,852
(2) 200 g - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	80780442	2,310
(2) 200 g - 1 mg	F1	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780441	3,796
100 g - 1 g	F1	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	80780440	1,575
100 g - 1 mg	F1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780439	2,810
50 g - 1 g	F1	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	80780438	1,367
50 g - 1 mg	F1	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	80780437	2,660
500 mg - 1 mg	F1	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780435	1,462
5 g - 1 mg	F1	NVLAP	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	80780436	1,505
5 kg - 1 kg	F1	NVLAP	(2) 2 kg; 1 kg; 5 kg	80780455	5,293

F2 WEIGHT SETS WITHOUT CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



F2

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	F2	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390807	18,149
50 kg - 1 mg	F2	-	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390808	18,538
20 kg - 1 g	F2	-	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390809	11,534
20 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390810	11,853
10 kg - 1 g	F2	-	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390811	8,776
10 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390812	9,071
5 kg - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390814	5,244
5 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390815	5,929
2 kg - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390816	4,014
2 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390817	4,544
(2) 2 kg - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390029	4,544
(2) 2 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390030	4,619
1 kg - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390818	3,545
1 kg - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390819	3,720
500 g - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390820	1,791
500 g - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390821	2,316
200 g - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390822	1,391
200 g - 1 mg	F2	-	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390823	2,203
(2) 200 g - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390031	1,474
(2) 200 g - 1 mg	F2	-	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390032	2,242
100 g - 1 g	F2	-	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390824	1,005
100 g - 1 mg	F2	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390825	1,262
50 g - 1 g	F2	-	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390826	906
50 g - 1 mg	F2	-	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390827	1,230
500 mg - 1 mg	F2	-	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390829	768
5 g - 1 mg	F2	-	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390828	849
5 kg - 1 kg	F2	-	(2) 2 kg; 1 kg; 5 kg	30390813	4,437

F2 WEIGHT SETS WITH NVLAP CERTIFICATE

Calibration Weight Sets Adjusted to Meet or Exceed OIML Class E1, E2, F1, and F2 Tolerances



F2

Weight Set Range	OIML Class	Certificate Type	Set Contents	Item Number	List Price (USD)
50 kg - 1 g	F2	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390830	18,462
50 kg - 1 mg	F2	NVLAP	(2) 20 kg; 50 kg; (2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390831	19,349
20 kg - 1 g	F2	NVLAP	(2) 2 g; (2) 200 g; 20 kg; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390832	13,419
20 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 20 kg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390833	14,333
10 kg - 1 g	F2	NVLAP	(2) 2 g; (2) 200 g; 10 g; (2) 20 g; 100 g; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390834	10,512
10 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 10 kg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390835	11,267
5 kg - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g; 5 kg	30390837	6,809
5 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg; 5 kg	30390838	7,978
2 kg - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 2 kg; 500 g	30390839	5,244
2 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 2 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390840	6,467
(2) 2 kg - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 500 g	30390033	6,018
(2) 2 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; (2) 2 kg; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390034	6,636
1 kg - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 1 kg; 500 g	30390841	4,607
1 kg - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 1 kg; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390842	5,486
500 g - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g; 500 g	30390843	2,734
500 g - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; 500 g; (2) 2 mg; 50 mg; 1 mg	30390844	3,951
200 g - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g; 200 g	30390845	2,028
200 g - 1 mg	F2	NVLAP	(2) 2 g; (2) 20 mg; 200 g; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390846	3,558
(2) 200 g - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; (2) 200 g; 1 g; 50 g; 5 g	30390035	2,191
(2) 200 g - 1 mg	F2	NVLAP	(2) 2 g; (2) 200 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390036	3,733
100 g - 1 g	F2	NVLAP	10 g; (2) 20 g; 100 g; (2) 2 g; 1 g; 50 g; 5 g	30390847	1,530
100 g - 1 mg	F2	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390848	2,478
50 g - 1 g	F2	NVLAP	10 g; (2) 20 g; (2) 2 g; 1 g; 50 g; 5 g	30390849	1,356
50 g - 1 mg	F2	NVLAP	(2) 2 g; (2) 20 mg; 500 mg; 10 g; (2) 20 g; 100 mg; 10 mg; (2) 200 mg; 1 g; 50 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 1 mg	30390850	2,390
500 mg - 1 mg	F2	NVLAP	100 mg; 10 mg; (2) 200 mg; (2) 20 mg; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390852	1,454
5 g - 1 mg	F2	NVLAP	100 mg; 10 mg; (2) 2 g; (2) 200 mg; (2) 20 mg; 1 g; 5 g; 5 mg; (2) 2 mg; 50 mg; 500 mg; 1 mg	30390851	1,479
5 kg - 1 kg	F2	NVLAP	(2) 2 kg; 1 kg; 5 kg	30390836	5,000

CAL-PAKS

Calibration Weight Sets Adjusted to Meet or Exceed ASTM Class 1-4 Tolerances



NVLAP

Weight Set Range	ASTM Class	Certificate Type	Set Contents	Item Number	List Price (USD)
2 g - 1 mg	UltraClass	NVLAP	200 mg; 2 g; 1 mg	30391799	593
5 g - 1 mg	UltraClass	NVLAP	5 g; 500 mg; 1 mg	30391798	592



1

Set Capacity	Weight Set Range	ASTM Class	Density at 20°C	Item Number	List Price (USD)
55.2 g	50 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30390007	566
57 g	50 g - 2 g	1	8.03 g/cm ³	30391795	566
110.02 g	100 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391794	566
110.2 g	100 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391793	566
112 g	100 g - 2 g	1	8.03 g/cm ³	30391792	586
220.2 g	200 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391791	671
222 g	200 g - 2 g	1	8.03 g/cm ³	30391790	671
550.02 g	500 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391789	846
550.2 g	500 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391788	846
552 g	500 g - 2 g	1	8.03 g/cm ³	30391787	846
1,102 g	1 kg - 2 g	1	8.03 g/cm ³	30391786	1,030
1,120 g	1 kg - 20 g	1	8.03 g/cm ³	30391785	1,235
2,202 g	2 kg - 2 g	1	2 kg is 7.95 g/cm ³ ; 1 kg and below are 8.03 g/cm ³	30391784	1,499
2,220 g	2 kg - 20 g	1	2 kg is 7.95 g/cm ³ ; 1 kg and below are 8.03 g/cm ³	30391783	1,932
5,502 g	5 kg - 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390005	#N/A
5,502 g	5 kg, 500 g, 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390006	2,025
5,520 g	5 kg - 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390004	#N/A
5,520 g	5 kg, 500 g, 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30391782	2,245
5,202 g	5 kg, 200 g, 2g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390002	#N/A
5,202 g	5 kg, 200 g, 2 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390003	2,213
5,220 g	5 kg - 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390000	#N/A
5,220 g	5 kg, 200 g, 20 g	1	1 kg and below are 8.03 g/cm ³ ; 2 kg and above are 7.95 g/cm ³	30390001	2,133
22.02 g	20 g - 20 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391797	583
22.2 g	20 g - 200 mg	1	500 mg and below are 7.95 g/cm ³ ; 1 g and above are 8.03 g/cm ³	30391796	583

CAST IRON GRIP METRIC WEIGHTS

Individual Scale Calibration Weights Adjusted to Meet or Exceed NIST Class F Tolerances



Grip Handle

Weight Value	NIST Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
2 kg	F	-	Grip Handle	Cast Iron	80850300	102
5 kg	F	-	Grip Handle	Cast Iron	80850301	118
10 kg	F	-	Grip Handle	Cast Iron	80850302	195
20 kg	F	-	Grip Handle	Cast Iron	80850303	203
25 kg	F	-	Grip Handle	Cast Iron	80850304	273
50 kg	F	-	Grip Handle	Cast Iron	80850305	865
100 kg	F	-	Grip Handle	Cast Iron	30391713	1,967
200 kg	F	-	Grip Handle	Cast Iron	30391714	2,144
250 kg	F	-	Grip Handle	Cast Iron	30391715	2,495
500 kg	F	-	Grip Handle	Cast Iron	30391716	4,353
1,000 kg	F	-	Grip Handle	Cast Iron	30391717	9,832
2 kg	F	Traceable	Grip Handle	Cast Iron	30391736	163
5 kg	F	Traceable	Grip Handle	Cast Iron	30391737	187
10 kg	F	Traceable	Grip Handle	Cast Iron	30391738	233
20 kg	F	Traceable	Grip Handle	Cast Iron	30391739	301
25 kg	F	Traceable	Grip Handle	Cast Iron	30391740	376
50 kg	F	Traceable	Grip Handle	Cast Iron	30391741	1,189
100 kg	F	Traceable	Grip Handle	Cast Iron	30391742	2,458
200 kg	F	Traceable	Grip Handle	Cast Iron	30391743	2,797
250 kg	F	Traceable	Grip Handle	Cast Iron	30391744	3,094
500 kg	F	Traceable	Grip Handle	Cast Iron	30391745	5,408
1,000 kg	F	Traceable	Grip Handle	Cast Iron	30391746	10,728
2 kg	F	NVLAP	Grip Handle	Cast Iron	30391695	210
5 kg	F	NVLAP	Grip Handle	Cast Iron	30391696	232
10 kg	F	NVLAP	Grip Handle	Cast Iron	30391697	296
20 kg	F	NVLAP	Grip Handle	Cast Iron	30391698	368
25 kg	F	NVLAP	Grip Handle	Cast Iron	30391699	438
50 kg	F	NVLAP	Grip Handle	Cast Iron	30391700	1,261
100 kg	F	NVLAP	Grip Handle	Cast Iron	30391701	2,606
200 kg	F	NVLAP	Grip Handle	Cast Iron	30391702	2,943
250 kg	F	NVLAP	Grip Handle	Cast Iron	30391703	3,241
500 kg	F	NVLAP	Grip Handle	Cast Iron	30391704	5,548
1,000 kg	F	NVLAP	Grip Handle	Cast Iron	30391705	10,879

CAST IRON GRIP AVD WEIGHTS

Individual Scale Calibration Weights Adjusted to Meet or Exceed NIST Class F Tolerances



Grip Handle

Weight Value	NIST Class	Certificate Type	Design	Weight Material	Item Number	List Price (USD)
5 lb	F	-	Grip Handle	Cast Iron	80850306	81
10 lb		-	Grip Handle	Cast Iron	30391800	102
10 lb	F	-	Grip Handle	Cast Iron	80850307	106
20 lb	F	-	Grip Handle	Cast Iron	80850308	135
25 lb	F	-	Grip Handle	Cast Iron	80850309	168
30 lb	F	-	Grip Handle	Cast Iron	30391723	249
50 lb	F	-	Grip Handle	Cast Iron	80850310	227
250 lb	F	-	Grip Handle	Cast Iron	30391727	2,232
100 lb	F	-	Grip Handle	Cast Iron	80850311	855
200 lb	F	-	Grip Handle	Cast Iron	30391726	1,945
500 lb	F	-	Grip Handle	Cast Iron	30391728	2,435
1,000 lb	F	-	Grip Handle	Cast Iron	30391729	3,870
1,250 lb	F	-	Grip Handle	Cast Iron	30391730	8,114
1,500 lb	F	-	Grip Handle	Cast Iron	30391731	9,372
2,000 lb	F	-	Grip Handle	Cast Iron	30391732	10,718
2,500 lb	F	-	Grip Handle	Cast Iron	30391733	12,123
3,000 lb	F	-	Grip Handle	Cast Iron	30391734	13,507
5,000 lb	F	-	Grip Handle	Cast Iron	30391735	21,532
5 lb	F	Traceable	Grip Handle	Cast Iron	30391748	154
10 lb	F	Traceable	Grip Handle	Cast Iron	30391749	175
20 lb	F	Traceable	Grip Handle	Cast Iron	30391750	214
25 lb	F	Traceable	Grip Handle	Cast Iron	30391751	259
30 lb	F	Traceable	Grip Handle	Cast Iron	30391752	278
50 lb	F	Traceable	Grip Handle	Cast Iron	30391753	532
250 lb	F	Traceable	Grip Handle	Cast Iron	30391756	2,739
100 lb	F	Traceable	Grip Handle	Cast Iron	30391754	1,239
200 lb	F	Traceable	Grip Handle	Cast Iron	30391755	2,411
500 lb	F	Traceable	Grip Handle	Cast Iron	30391757	3,260
1,000 lb	F	Traceable	Grip Handle	Cast Iron	30391758	4,828
2,000 lb	F	Traceable	Grip Handle	Cast Iron	30391761	11,364
2,500 lb	F	Traceable	Grip Handle	Cast Iron	30391762	13,385
3,000 lb	F	Traceable	Grip Handle	Cast Iron	30391763	14,494
1,250 lb	F	Traceable	Grip Handle	Cast Iron	30391759	8,752
5,000 lb	F	Traceable	Grip Handle	Cast Iron	30391764	24,614
1,500 lb	F	Traceable	Grip Handle	Cast Iron	30391760	9,715
5 lb	F	NVLAP	Grip Handle	Cast Iron	30391765	200
10 lb	F	NVLAP	Grip Handle	Cast Iron	30391766	233
20 lb	F	NVLAP	Grip Handle	Cast Iron	30391767	265
25 lb	F	NVLAP	Grip Handle	Cast Iron	30391768	280
30 lb	F	NVLAP	Grip Handle	Cast Iron	30391769	360
50 lb	F	NVLAP	Grip Handle	Cast Iron	30391770	359
250 lb	F	NVLAP	Grip Handle	Cast Iron	30391773	2,886
100 lb	F	NVLAP	Grip Handle	Cast Iron	30391771	1,335
200 lb	F	NVLAP	Grip Handle	Cast Iron	30391772	2,558
500 lb	F	NVLAP	Grip Handle	Cast Iron	30391774	3,408
1,000 lb	F	NVLAP	Grip Handle	Cast Iron	30391775	4,970
1,250 lb	F	NVLAP	Grip Handle	Cast Iron	30391776	8,926
1,500 lb	F	NVLAP	Grip Handle	Cast Iron	30391777	10,108
2,000 lb	F	NVLAP	Grip Handle	Cast Iron	30391778	11,530
2,500 lb	F	NVLAP	Grip Handle	Cast Iron	30391779	13,603
3,000 lb	F	NVLAP	Grip Handle	Cast Iron	30391780	15,562
5,000 lb	F	NVLAP	Grip Handle	Cast Iron	30391781	#N/A

Accessories for Weighing



Track your results on paper when you connect a balance or scale to a printer from OHAUS.



SF40A

OHAUS Value in a Full-Featured, Portable Printer

Communication

RS233 (included)

Construction

ABS Housing

Design Features

Status indicator, 40 characters per line, perform zero and tare operations directly from the printer

Operation

AC adapter (included)



The statistics and totalization modes and real time clock complement OHAUS weighing instruments' application modes and offer functionality that assists the reporting processes.

SF40A helps support the efficiency of the weighing and recording processes. RS232 interface and PC configuration software make setting up and using the printer fast and simple.

With the ability to print in 13 different languages, SF40A can print in the language of the connected device to support universal operation.

Model	Printer Type	Print Speed	Item Number	List Price (USD)
SF40A	Impact Dot Matrix	1.2 lines per second	30064203	1,409
Accessories			Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A			12120799	27
Axis, Paper Roll, SF40A			30063920	32
Ink Ribbon SF40A			30529322	83
Cable RS9 M/F 1m			30529323	284
Accessories			Item Number	List Price (USD)
RS232 cable for Defender 6000XW/5000X-W/3000XW			80500552	256
RS232 cable for Defender 5000P/3000P, DFD25P, Courier 7000, Ranger 7000/4000/3000 and Valor 7000			80500525	275



Statistics Totalization Time/Date

SF40A/BT

Bluetooth Portable Printer

Communication

RS232, Bluetooth

Construction

ABS Housing

Design Features

2 Bluetooth Adapters, Status indicator, 40 characters per line, perform zero and tare operations directly from the printer

Operation

AC Adapter (Included)



Secure and simple set-up, with a factory paired Bluetooth adapter leading to plug and play integration.

With its statistics and totalization modes and clock, the SF40A/ BT ensures accurate and compliant reporting.

With the ability to print in 13 different languages, SF40A/BT can print in the language of the connected device to support universal operation.

Model	Printer Type	Print Speed	Item Number	List Price (USD)
SF40A/BT	Impact Dot Matrix	1.2 lines per second	30944360	1,597

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Paper Roll, 57.5mm, SF40A	12120799	27	RS232 cable for Defender 6000XW/5000X-W/3000XW	80500552	256
Axis, Paper Roll, SF40A	30063920	32	RS232 cable for Defender 5000P/3000P, DFD25P, Courier 7000, Ranger 7000/4000/3000 and Valor 7000	80500525	275
Ink Ribbon SF40A	30529322	83			
Cable RS9 M/F 1m	30529323	284			



STP103

Economical Palm-Sized Thermal Printer

Communication

RS232 (cable available as an accessory)

Construction

ABS Housing

Design Features

Status indicator, paper feeder, graphical printing capabilities

Operation

AC Adapter (Included)



This ultra-compact printer has a very small footprint and also features very low power consumption, requiring limited resources from your workspace.

The extremely fast STP103 offers 42 column printing at a speed of approximately 11.8 lines per second.

Loading paper into the printer is quick and easy and when the paper becomes low, the printer will suspend printing in order to prevent printing errors resulting from lack of paper.

Model	Printer Type	Interface Type	Print Speed	Paper Type	Item Number	List Price (USD)
STP103	Direct Thermal	RS232 Serial	1.97 inches / sec	Thermal Paper, 57.5mm (W)	80251992	1,087
Accessories			Item Number	List Price (USD)		
Adapter, 25 Pin-9 Pin, STP103			80251930	57		
Paper Roll, Thermal, STP103			80251931	33		
Cable, ST103-AR EP VP			80252580	275		
Cable ST103-EX MB PA TxxP			80252581	275		
Cable, ST103-TC TR			80252583	254		
Accessories			Item Number	List Price (USD)		
Cable, ST103-CKW55 TxxXW			80252584	309		
RS232 cable for Defender 6000XW/5000X-W/3000XW			80500552	256		
RS232 cable for Defender 5000P/3000P, DFD25P, Courier 7000, Ranger 7000/4000/3000 and Valor 7000			80500525	275		



ZEBRA ZD421 RS232

Economical Barcode Label Printer

Applications

Thermal Transfer Barcode Label Printing for Defender 5000 (TD52) and Ranger 7000.

Communication

RS232 (cable 80500525 required). Other communication not supported for OHAUS products.

Construction

ABS Housing

Design Features

Status indicator, paper feeder, graphical printing capabilities, AC adapter power (included).

Requires RS232 Kit 30037448 for connection to Ranger 7000.

Ranger 7000, Defender 5000 (TD52P) and Defender 3000 (DT33P) require RS232 Cable 80500525.

Defender 5000 (TD52XW) and Defender 3000 (DT33XW) required RS232 Cable 80500552



Datalogic QD2131
Barcode Scanner
Accessory

Fast label printing with full part information—supports EPL2 and ZLP II Zebra programming languages.

Quickly configured with Ranger 7000 and Defender 6000/5000/3000 models using ScaleMate and print templates available on OHAUS DMX for dealers.

Easy label loading—accepts wide range of labels.

Model	Printer Type	Print Speed	Media Specifications	Operating Temperature	Item Number	List Price (USD)
ZD421 RS232	Thermal Transfer, 203 dpi/8 dots per mm	6" / 152 mm per second maximum	0.75" / 19 mm to 4.25" / 108 mm wide 0.25" / 6.4 mm to 39" / 990 mm long 0.003" / 0.08 mm to 0.0075" / 0.19 mm thick Max. roll size 5"/127 mm O.D.	40° F to 105° F / 4.4° C to 41° C 10% to 90% non-condensing relative humidity	30928908	973
Accessories			Item Number	List Price (USD)	Accessories	
Datalogic Barcode Scanner QD2131			30593703	272	Cable, RS232 for TD52 and Ranger 7000	80500525 275
RS232 Kit, Ranger 7000			30037448	221	USB Host (required for QD2131 to TD52)	30572923 191

NOTES

Laboratory Equipment



OHAUS is now offering equipment designed for every area of the laboratory, giving you the opportunity to Do More. From stirrers to shakers, lifts to clamps, our newly expanded portfolio is filled with products perfect for life sciences laboratories, giving you countless opportunities to fill every inch of your laboratory.



	Mini Centrifuge	Micro Centrifuges				
						
Model	FC5306	FC5513L	FC5513	FC5513R	FC5515	FC5515R
Description	Small but powerful mini centrifuge for simple and quick separation	Space saving, economical 18-place micro centrifuge	Standard micro centrifuge for clinical and basic molecular biology applications		High-speed micro centrifuge for a broad range of applications	
Max Capacity (mL)	8 × 1.5/2.0 mL	18 × 1.5/2.0 mL	24 × 1.5/2.0 mL	18 × 1.5/2.0 mL	44 × 1.5/2.0 mL	
Max RCF	2,000 × g	15,994 × g	17,317 × g	17,157 × g	21,953 × g	
Max RPM	6,000	14,000	13,500	14,500	15,200	
Refrigerated	—	—	—	–20 °C to 40 °C	—	
Dimensions (W × D × H)	5.9 × 6.6 × 5.0"	14 × 9.3 × 10.9"	14 × 9.3 × 10.9"	11.3 × 21.8 × 11.3"	15.5 × 11.5 × 11.3"	22.1 × 11.5 × 11.3"
Weight (lbs)	4.1	27.8	27.8	72.7	38	77
Noise	≤60 dB(A)	≤ 57 dB(A)	≤60 dB(A)	≤ 56 dB(A)	≤60 dB(A)	≤ 57 dB(A)
Rotor Options	2	1	4	3	7	
Microtube 5 mL	—	—	—	—	12	
Microtubes 1.5/2.0 mL	8	18	24		44	
Microtubes 0.5 mL	8	18	24		44	
Microtubes 0.2 mL	8	18	24		44	
8-place PCR Strips	4	—	4		4	
Hematocrit Capillaries	—	—	24		24	
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	Multi Centrifuges	
		
Model	FC5707	FC5706
Description	Economical low-speed centrifuge with medium capacity	Compact, low-speed centrifuge with medium capacity for clinical and cell culture labs
Max Capacity Swinging-Bucket	—	6 × 5 mL
Max Capacity Fixed-Angle	8 × 15 mL	6 × 50 mL
Max RCF	4,445 × g	4,427 × g
Max RPM	6,800	6,000
Refrigerated	—	—
Dimensions (W × D × H)	14 × 9.3 × 10.9"	15.4 × 10.5 × 11.5"
Weight (lbs)	23	23
Noise	≤60 dB(A)	≤60 dB(A)
Rotor Options	2	3
Conical 50 mL	4	6
Round Bottom 50 mL	4	—
Conical 15 mL	4	12
Round Bottom 15 mL	8	—
Blood Tube 10 mL (16 mm)	—	12
Blood Tube 7 mL (13.5 mm)	8	12
Blood Tube 5 mL (13.5 mm)	8	12
Microtube 1.5/2.0 mL	8	12
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Multi Pro Centrifuges							
							
Model	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
Description	Entry-level, multipurpose high-speed centrifuge	High-speed, compact multipurpose centrifuge		Medium through-put, general purpose centrifuge		High-throughput, multipurpose centrifuge for ultimate versatility	
Max Capacity Swinging-Bucket	4 × 100 mL	4 × 100 mL		4 × 250 mL		4 × 750 mL	
Max Capacity Fixed-Angle	30 × 15 mL	6 × 85 mL		6 × 250 mL		6 × 250 mL	
Max RCF	18,624 × g	23,542 × g		21,379 × g	24,325 × g	24,325 × g	26,328 × g
Max RPM	14,000	18,000		15,000	16,000	16,000	16,000
Refrigerated	—	—	–20 °C to 40 °C	—	–20 °C to 40 °C	—	–20 °C to 40 °C
Dimensions (W × D × H)	19.4 × 13 × 14.2"	19.6 × 13.8 × 16.0"	28.7 × 14.1 × 16.0"	21.2 × 14 × 17.6"	21.2 × 14 × 28.5"	26.4 × 15.4 × 21.3"	26.4 × 15.4 × 28.7"
Weight (lbs)	66	95	132	115	170	187	260
Noise	≤63 dB(A)	≤60 dB(A)	≤60 dB(A)	≤61 dB(A)	≤63 dB(A)	≤63 dB(A)	≤63 dB(A)
Rotor Options	9	19		13		14	
Bottles 750 mL	—	—		—		4	
Conical 500 mL	—	—		—		4	
Conical 250 mL	—	—		—		4	
Bottle 250 mL	—	—		6		6	
Round Bottom 100 mL	4	4		4		12	
Conical 50 mL	8	10		16		28	
Round Bottom 50 mL	6	6		12		28	
Conical 15 mL	30	30		40		68	
Blood Tube 13 mm	28	28		56		108	
Blood Tube 16 mm	20	20		32		72	
Microtube 1.5/2.0 mL	96	40		96		96	
Microtiter Plates (MTP)	6	6		6		12	
Deep Well Plates (DPW)	2	2		2		4	
8-place PCR Strips	—	4		—		4	
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FRONTIER™ 5000 SERIES MICRO

Dependable Benchtop Micro Centrifuges, Ideal for High-speed Lab Applications

Display

LCD, Backlight, 2 lines

Construction

Brushless quiet motor, small footprint

Design Features

High sample throughput, multi-safety control, personal program function

Operation

AC Power (Included)



Excellent functionality when used with rotors compatible with 1.5/2.0ml or 5ml microtubes with high throughput & biocontainment options, spin columns, PCR strips, cryo tubes & hematocrit capillaries.

Designed for ease of operation, Frontier Micro centrifuges feature convenient controls on an intuitive interface, allowing responsive operation – even when wearing gloves.

Packaging all their functionality within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench.

Model	Speed Range	Temp Range	Maximum Relative Centrifuge Force (x g)	Maximum Capacity (Rotor)	Item Number	List Price (USD)
FC5513L + R06 120V	200 rpm - 14,000 rpm		15,994 g	18 × 1.5 / 2.0 ml	83041044	2,055
FC5513L + R06 230V	200 rpm - 14,000 rpm		15,994 g	18 × 1.5 / 2.0 ml	83041043	#N/A
FC5513 120V	200 rpm - 13,500 rpm		17,317 g	24 × 1.5 / 2.0 ml	30393188	2,521
FC5513 230V	200 rpm - 13,500 rpm		17,317 g	24 × 1.5 / 2.0 ml	30393187	2,521
FC5513+R02 120V	200 rpm - 13,500 rpm		17,317 g	24 × 1.5 / 2.0 ml	30370692	2,732
FC5513+R02 230V	200 rpm - 13,500 rpm		17,317 g	24 × 1.5 / 2.0 ml	30370691	2,732
FC5513R 120V	200 rpm - 14,500 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	17,157 g	24 × 1.5 / 2.0 ml	83041042	5,732
FC5513R 230V	200 rpm - 14,500 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	17,157 g	24 × 1.5 / 2.0 ml	83041041	#N/A
FC5515 120V	200 rpm - 15,200 rpm		21,953 g	44 × 1.5 / 2.0ml; 12 × 5 ml	30130867	3,456
FC5515 230V	200 rpm - 15,200 rpm		21,953 g	44 × 1.5 / 2.0ml; 12 × 5 ml	30130866	3,456
FC5515R 120V	200 rpm - 15,200 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	21,953 g	44 × 1.5 / 2.0ml; 12 × 5 ml	30130869	7,548
FC5515R 230V	200 rpm - 15,200 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	21,953 g	44 × 1.5 / 2.0ml; 12 × 5 ml	30130868	7,548

Accessories	Item Number	List Price (USD)
Rotor, Angle, 30×1.5/2.0ml, Sealable	30130872	1,830
Rotor, Angle, 12×5ml, Sealable	30130873	2,032
Rotor, Angle, 4×8-Place PCR Stripes	30130874	2,388
Adapter, D6mm, 0.2/0.4ml Tubes ×6	30130884	138
Adapter, D8mm, 0.5ml Tubes ×6	30130885	138
Rotor, Angle, 24 × 2.0 ml Spin Column	30210898	579
Rotor, Angle, 44×1.5/2.0ml, v2	30372717	1,453

Accessories	Item Number	List Price (USD)
Rotor, Angle, 24×1.5/2.0ml BIOSEALS V2	30472302	738
Rotor Hematocrit 24×Capillaries V2	30472304	858
Rotor, Angle, 24×1.5/2.0ml BIOSEALS V2	30642371	1,289
Rotor, Angle, 18×1.5/2.0ml Sealable	83041006	318
Rotor, Angle, 4×8-Place PCR Strip V1	83041014	706
Rotor, Angle, 24×2.0ml Spin Column V1	83041050	1,108

FRONTIER™ 5000 SERIES MULTI PRO

Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application

Display

Backlit Liquid Crystal Display (LCD)

Construction

Corrosion-resistant stainless steel chamber with Polycarbonate/ABS plastic lid

Design Features

Ten acceleration & deceleration rates, selection of running time from 10s to 99h 59min or continuous, quick spin, CFC-free refrigeration system, sample temp. indication (refrigerated models), lid-locking system, over-speed protection, dual imbalance sensing

Operation

Designed to be used with a variety of rotors and accessories



Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.

The intuitive design of the centrifuges and accessories enables easy access to parameter settings and quick rotation between applications. Features include automatic rotor recognition and backlit LCD.

The performance of these centrifuges is propelled by German engineering and high quality components for reliable use. Constructed from chemical-resistant stainless steel to ensure durability in lab use.

Model	Speed Range	Temp Range	Maximum Relative Centrifuge Force (x g)	Maximum Capacity (Rotor)	Item Number	List Price (USD)
FC5714 120V	200 rpm - 14,000 rpm		18,624 g	4 × 100 ml	30314811	4,164
FC5714 230V	200 rpm - 14,000 rpm		18,624 g	4 × 100 ml	30314810	4,164
FC5718 120V	200 rpm - 18,000 rpm		23,542 g	4 × 100 ml	30314813	6,329
FC5718 230V	200 rpm - 18,000 rpm		23,542 g	4 × 100 ml	30314812	6,329
FC5718R 120V	200 rpm - 18,000 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	23,542 g	4 × 100 ml	30314815	9,212
FC5718R 230V	200 rpm - 18,000 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	23,542 g	4 × 100 ml	30314814	9,212
NEW [FC5720R 120V	200 rpm - 20,000 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	38,007 g	4 × 200 ml	83041046	10,500
FC5720R 230V	200 rpm - 20,000 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	38,007 g	4 × 200 ml	83041045	#N/A
FC5816 120V	200 rpm - 15,000 rpm		21,379 g	6 × 250 ml	30314817	7,269
FC5816 230V	200 rpm - 15,000 rpm		21,379 g	6 × 250 ml	30314816	7,269
FC5816R 120V	200 rpm - 16,000 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	24,325 g	6 × 250 ml	30314819	10,763
FC5816R 230V	200 rpm - 16,000 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	24,325 g	6 × 250 ml	30314818	10,763
NEW [FC5830R 120V	200 rpm - 30,000 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	65,395 g	4 × 290 ml	83041048	13,650
FC5830R 230V	200 rpm - 30,000 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	65,395 g	4 × 290 ml	83041047	#N/A
FC5916 120V	200 rpm - 16,000 rpm		24,325 g	4 × 750 ml	30553037	9,480
FC5916R 120V	200 rpm - 16,000 rpm	-4 °F ; 104 °F (-20 °C ; 40 °C)	26,331 g	4 × 750 ml	30553103	13,382
NEW [FC5917RF Short 230V	200 rpm - 16,010 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	26,361 g	4 × 1000 ml	83041511	15,750
FC5917RF 230V	200 rpm - 16,010 rpm	-4 °F ; 104 °F (-20 °C ; 30 °C)	26,361 g	4 × 1000 ml	83041510	17,115

Accessories	Item Number	List Price (USD)
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 7ml Tubes x2	30130889	165
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D26mm, 30ml Tubes x2	30130891	339
Adapter, D18mm, 16ml Tubes x2	30130892	339
Adapter, D17mm, 15ml Tubes x2	30130893	339
Adapter D17mm 15ml RB/FA Tubes x2	30130894	237
Rack, 8x4-10ml D16mm Vac, 2/pk	30304367	434
Adapter, 9x1.5/2.0ml D11mm, 2/pk	30304368	405

Accessories	Item Number	List Price (USD)
Adapter, 8x1.5ml D11mm, 2/pk	30304369	373
Adapter, 5x10ml D16mm RB, 2/pk	30304370	379
Adapter, 4x15ml D17mm FA, 2/pk	30304371	373
Adapter, 2x30ml D26mm RB, 2/pk	30304372	379
Adapter, 1x50ml D29mm RB, 2/pk	30304373	379
Adapter, 1x50ml D30mm FA, 2/pk	30304374	373
Rack, 4x50ml D29mm FA, 2/pk	30304375	592
Rack, 10x15ml D17mm FA, 2/pk	30314583	592
Rack, 14x5-7ml D13mm Vac/Sar, 2/pk	30314584	592
Rack, 12x4-10ml D16mm Vac/Sar, 2/pk	30314585	592
Rotor, Swing out, 4x250ml, ID	30314820	2,136

FRONTIER™ 5000 SERIES MULTI PRO ACCESSORIES

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Rotor, Angle, 6x250ml FB, ID	30314821	5,250	Adapter, 1x30ml D25mm RB, 2/pk	30314894	261
Rotor, Swing out, 4x100ml, ID	30314822	1,770	Adapter, 1x50ml D29mm RB, 2/pk, V2	30314895	261
Rotor, Swing out, 4x100ml, ID, Sealable	30314823	1,491	Adapter, 1x50ml D29mm FA, 2/pk	30314896	258
Rotor Swing out 2x3MTP w/ bucket ID	30314824	2,567	Adapter, 1x15ml D17mm FA, 2/pk	30314897	258
Rotor, Angle, 6x85ml RB, ID, Hi	30314825	2,934	Adapter, 2x15ml D17mm RB, 2/pk	30314898	258
Rotor, Angle, 6x85ml RB, ID	30314826	2,961	Adapter, 1x16ml D18mm RB, 2/pk	30314899	261
Rotor, Angle, 4x85ml RB, ID, Hi	30314827	3,032	Adapter, 1x1.5ml for over16000xg, 6/pk	30314900	143
Rotor, Angle, 24x1.5/2.0ml ID, Bioseal	83041238	1,379	Screw Cap, Rack of 250ml Rotor, 2/pk	30314901	182
Rotor, Swing out, 16x50ml, ID	30314828	3,163	O-ring, Rack of 250ml Rotor, 10/pk	30314902	95
Rotor, Angle, 10x50ml FA, ID	30314829	3,758	Rack, 1x250ml D62mm FB, 2/pk	30314903	422
Rotor, Angle, 6x50ml RB/FA, ID	30314830	1,289	Rack, 1x100ml D41mm RB, 2/pk	30314904	428
Rotor, Angle, 6x50ml RB, ID, Hi	30314831	2,567	Rack, 3x50ml D29mm RB, 2/pk	30314905	422
Rotor, Angle, 30x15ml RB/FA, ID	30314832	2,006	Rack, 3x50ml D29mm FA, 2/pk	30314906	422
Rotor, Angle, 20x10ml RB, ID, Hi	30314833	2,654	Rack, 1x50ml D34mm RB, 2/pk, V3	30314907	428
Rotor, Angle, 12x15ml RB/FA, ID	30314834	1,300	Rack, 2x50ml D29mm Rim, 2/pk	30314908	422
Rotor, Angle, 30x1.5/2.0ml, ID, Sealable	30314836	2,076	Rack, 1x50ml D29mm Rim, 2/pk, V3	30314909	428
Rotor, Angle, 24x1.5/2.0ml, ID	30642361	1,448	Rack, 5x25ml D24.5mm RB, 2/pk	30314910	428
Rotor, Angle, 12x1.5/2.0ml, ID	30314839	1,857	Rack, 3x25ml D24.5mm Rim, 2/pk	30314911	428
Rotor, Angle, 4x8-w PCR Strip, ID	30314841	2,676	Rack, 9x15ml D17mm RB, 2/pk	30314912	428
Rack, 1x100ml D46mm RB, 2/pk	30314842	369	Rack, 7x15ml D17mm FA, 2/pk	30314913	422
Rack, 1x85ml D38mm RB, 2/pk	30314843	375	Rack, 7x15ml D17mm Rim, 2/pk	30314914	428
Rack, 1x50ml D34mm RB, 2/pk	30314844	375	Rack, 8x10ml D16mm RB, 2/pk	30314915	422
Rack, 1x50ml D29mm RB, 2/pk	30314845	369	Rack, 14x5-7ml D13mm RB, 2/pk	30314916	428
Rack, 1x50ml D29mm FA, 2/pk	30314846	369	Rack, 10x1.6-7ml D13mm Vac, 2/pk	30314917	428
Rack, 1x50ml D29mm Rim, 2/pk	30314847	369	Rotor, Angle, 44x1.5/2.0ml, ID, v2	30372718	1,638
Rack, 1x30ml D25mm Rim, 2/pk	30314848	375	Adapter 1x15ml D17mm RB 2/pk V2	30472300	152
Rack, 1x25ml D25mm RB, 2/pk	30314849	375	Adapter 1x15ml D17mm FA 2/pk V2	30472307	152
Rack, 2x15ml D17mm FA, 2/pk	30314850	369	Rotor Swing out 4x750ml ID Sealable	30553085	2,415
Rack, 1x15ml D17mm Rim, 2/pk	30314851	375	Rotor Angle 4x500ml ID	30553086	5,817
Rack, 7x15ml D17mm RB, 2/pk	30314852	369	Bucket MTP x2 V1	30553104	2,224
Rack, 9x5-7ml D13mm RB, 2/pk	30314853	375	Holder removing aid for Bucket 30553104	30553105	246
Rack, 10x1.5ml D11mm, 2/pk	30314854	375	Lid Assembly for bucket 30553104 PC x2	30553117	355
Rack, 9x4.5ml D12mm FB, 2/pk	30314855	375	O-Ring for bucket 30553104 SIL x2	30553118	173
Rack, 7x5-7ml D13mm RB, 2/pk	30314856	369	Bucket MTP x2 V2	30553119	1,017
Rack, 7x5-7ml D13mm Vac, 2/pk	30314857	369	Lid Assembly for Bucket 30602502 PC 2x	30553122	279
Rack, 5x4-10ml D16mm Sar, 2/pk	30314858	369	O-Ring for bucket 30602502 NBR 10x	30553123	173
Bucket, 100ml w/o Cap, 2/pk	30314860	449	Rack 1x500ml D96mm FA x2	30553124	501
Bucket, 100ml w/ Cap, Sealable, 2/pk	30314861	540	Rack 1x250ml D62mm FB x2 V1	30553125	501
Screw Cap, 100ml Bucket, Sealable, 2/pk	30314862	164	Rack 1x175/225ml D61mm FA x2	30553126	501
O-ring, 100ml Bucket, Sealable, 10/pk	30314863	78	Rack 3x100ml D41mm RB x2	30553127	501
Rack, 1x100ml D40mm RB, 2/pk	30314864	331	Rack 5x50ml D29mm FA x2	30553128	501
Rack, 1x85ml D38mm RB, 2/pk, V2	30314865	336	Rack 5x50ml D29mm FAw/R x2	30553129	501
Rack, 1x50ml D34mm RB, 2/pk, V2	30314866	336	Rack 7x50ml D29mm FA x2	30553130	501
Rack, 1x50ml D29mm RB, 2/pk, V2	30314867	331	Rack 7x50ml D29mm RB x2	30553131	501
Rack, 1x50ml D29mm FA, 2/pk, V2	30314868	331	Rack 8x30ml D26mm RB x2	30553132	501
Rack, 1x50ml D29mm Rim, 2/pk, V2	30314869	331	Rack 14x15ml D17mm FA x2	30553133	501
Rack, 1x30ml D25mm Rim, 2/pk, V2	30314870	331	Rack 17x15ml D17mm FA x2	30553134	501
Rack, 1x25ml D25mm RB, 2/pk, v2	30314871	339	Rack 18x15ml D17mm RB x2	30553135	501
Rack, 1x15ml D17mm FA, 2/pk	30314872	345	Rack 21x10ml D16mm RB x2	30553136	501
Rack, 2x15ml D17mm FA, 2/pk, V2	30314873	339	Rack 32x7ml D13mm RB x2	30553138	501
Rack, 2x15ml D17mm Rim, 2/pk	30314874	345	Rack 27x1.8/7ml D13mm Vac/Sar x2	30553139	501
Rack, 4x15ml D17mm RB, 2/pk	30314875	345	Rack 18x4/10ml D16mm Vac/Sar x2	30553140	501
Rack, 7x5-7ml D13mm RB, 2/pk, V2	30314876	339	Rack 38x1.1/1.4ml D8mm Sar x2	30559377	501
Rack, 5x1.5ml D11mm, 2/pk	30314877	345	Adapter 15x1.5/2.0ml D11mm MTB x2	30559412	373
Rack, 3x10ml D17mm Sar, 2/pk	30314878	345	Adapter 1x175/225ml D61mm FA x2	30559414	373
Rack, 4x5-7ml D13mm RB, 2/pk	30314879	345	Adapter 1x250ml D60.5mm FA x2	30559416	373
Rack, 4x10ml D17mm Vac, 2/pk	30314880	331	Adapter 1x175/225 ml D61.5mm FA x2	30559417	373
Bucket, 2x50ml D29mm FA, w/ Rack, 2/pk	30314881	704	Adapter 1x50ml D29.5mm FA x2	30559419	373
Bucket, 3x15ml D17mm FA, w/ Rack, 2/pk	30314882	719	Adapter 3x50ml D29mm RB x2	30559420	373
Bucket, 3xMTP, 2/pk	30314890	4,351	Adapter 4x30ml D25.5mm RB x2	30559421	373
Adapter, 48x1.5/2.0ml D11mm, 2/pk	30314891	1,161	Adapter 6x15ml D17mm FA x2	30559422	373
Adapter, 1x15ml D17.5mm FA, 2/pk	30314892	290	Adapter 1x250ml D61.5mm FB x2	30564850	373
Adapter, 1x15ml D17mm RB, 2/pk	30314893	261	Bucket 1x750ml D99mm FB x2 V1	30602502	942

FRONTIER™ 5000 SERIES MULTI

Reliable and Compact Multi-Function Centrifuges Ideal for General Lab Applications

Display

LCD, Backlight, 2 lines

Construction

Brushless quiet motor, small footprint

Design Features

Easy installation design

Operation

AC Power (Included)



Designed for ease of operation, Frontier™ Multi Centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.

Frontier™ Multi Centrifuges can accommodate standard 50ml and 15ml tubes, including common blood tubes. When used with accessories, rotors can be adapted for sizes as small as 1.5ml.

Enclosing all its functionalities within a small footprint, Frontier™ Multi Centrifuges save valuable space on the lab bench.

Model	Speed Range	Maximum Relative Centrifuge Force (x g)	Maximum Capacity(Rotor)	Item Number	List Price (USD)
FC5707+R05 100-230V	200 rpm - 6,800 rpm	4,445 g	8 × 15 ml	30393189	2,166
FC5707+R09 100-230V	200 rpm - 6,800 rpm	4,445 g	4 × 50 ml or 4 × 15 ml	83041073	2,114
FC5706 120V	200 rpm - 6,000 rpm	4,427 g	6 × 50 ml	30130876	2,634
FC5706 230V	200 rpm - 6,000 rpm	4,427 g	6 × 50 ml	30130875	2,634

Accessories	Item Number	List Price (USD)
Rotor Angle 12x15ml RB/FA	30130877	781
Rotor Angle 6x50ml RB/FA	30130878	1,377
Rotor Angle 4x50 mL RB/FA or 15mL RB/FA	83041009	546
Rotor, Swing Out, 6x5ml RB	30130880	924
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 7ml Tubes x2	30130889	165
Adapter, D13.5mm, 5ml Tubes x2	30130890	151

Accessories	Item Number	List Price (USD)
Adapter, D26mm, 30ml Tubes x2	30130891	339
Adapter, D18mm, 16ml Tubes x2	30130892	339
Adapter, D17mm, 15ml Tubes x2	30130893	339
Adapter D17mm 15ml RB/FA Tubes x2	30130894	237
Buckets, For 30130880 x2	30130895	144
Rotor Angle 8x15ml	30472305	563

FRONTIER™ 5000 SERIES MINI

Powerful and Convenient Mini Centrifuge for Simple and Quick Life Science Separation Applications!

Construction

Brushless quiet motor, auto shut-off safety switches

Design Features

One-touch operation

Operation

AC adapter (included)



With a low voltage power input, quiet brushless motor and a rubber base that absorbs vibrations, Frontier 5306 minimizes operational noise and reduces disruptions in the laboratory.

Frontier 5306 is designed with operator safety in mind, and includes a rotor imbalance sensor and two safety switches which immediately stop the rotors should the lid open during use.

Frontier 5306 takes simple one-step operation to a new level. Simply place your sample in the centrifuge, close the lid, and it will begin to rotate without the press of a button.

Model	Speed Range	Maximum Relative Centrifuge Force (x g)	Maximum Capacity(Rotor)	Item Number	List Price (USD)
FC5306	0 rpm - 6,000 rpm	2,000 g	8 × 1.5 / 2.0 ml	30134157	290

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Rotor, 1.5/2ml × 8, FC5306	30129559	69	Adapter, 0.2ml Tube × 8, FC5306	30129561	70
Rotor, 0.2ml PCR 8 × 4, FC5306	30129560	69	Adapter, 0.5ml Tube × 8, FC5306	30129562	70

FRONTIER™ 5000 ROTORS

Offering Flexibility to Maximize Sample Preparation

Construction

Aluminum or polypropylene material

Design Features

Easy-installation



Choose from a range of rotors to be used with Frontier centrifuges to match capacities and flexibility required for your basic to high-performance sample preparation needs.

Designed with usability in mind, the Frontier rotors can be effortlessly installed or removed in a few quick and simple steps, and users have easy access to the samples.

The sturdy rotors are constructed of high-quality materials, built to last through demanding workflows from autoclave sterilization to sub-zero temperature.

Model	Angle	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Compatible Models	Item Number	List Price (USD)
R-A24x2SC	45°	24 × 1.5 / 2.0 ml	17,317 g	13,500 rpm	FC5513	30210898	579
R-A24X2/16MIS	45°	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	FC5816R; FC5718R; FC5916R; FC5816; FC5718; FC5916; FC5714	30642361	1,448
R-A24X2/15MS	45°	24 × 1.5 / 2.0 ml	21,953 g	15,200 rpm	FC5515; FC5515R	30642371	1,289
R-A8x2/6M	45°	8 × 1.5 / 2.0 ml	2,560 g	6,000 rpm	FC5306	30129559	69
R-A4xPCR/6	45°	4 × 0.2 ml PCR8	2,260 g	6,000 rpm	FC5306	30129560	69
R-A30x2/13MS	45°	30 × 1.5 / 2.0 ml	19,150 g	13,500 rpm	FC5515; FC5515R	30130872	1,830
R-A12x5/14MS	45°	12 × 5 ml	19,978 g	14,500 rpm	FC5515; FC5515R	30130873	2,032
R-A4xPCR/15	45°	4 × 0.2 ml PCR8	15,342 g	15,000 rpm	FC5515; FC5515R	30130874	2,388
R-A12x15/6M	32°	12 × 15 ml	4,427 g	6,000 rpm	FC5706	30130877	781
R-A6x50/6M	40°	6 × 50 ml	4,427 g	6,000 rpm	FC5706	30130878	1,377
R-S6x5/4	0-90°	6 × 5 ml	1,817 g	4,000 rpm	FC5706	30130880	924
R-A24xCAP/12	90°	24 × Capillaries	14,970 g	12,000 rpm	FC5515; FC5515R	30130881	#N/A
R-S4x250/4MI	0-90°	4 × 250 ml	3,780 g	4,500 rpm	FC5816R; FC5816	30314820	2,136
R-A6x250/8MI	28°	6 × 250 ml	10,016 g	8,000 rpm	FC5816R; FC5816; FC5916; FC5916R	30314821	5,250
R-S4x100/4MI	0-90°	4 × 100 ml	3,350 g	4,500 rpm	FC5718R; FC5718; FC5714	30314822	1,770
R-S4x100/5MIS	0-90°	4 × 100 ml	3,885 g	5,000 rpm	FC5718R; FC5718; FC5714	30314823	1,491
R-S6xMTP/4MI	0-90°	2 × 3MTP	2,716 g	4,500 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5714; FC5916; FC5916R	30314824	2,567
R-A6x85/14MI	25°	6 × 85 ml	20,984 g	13,500 rpm	FC5718R; FC5718	30314825	2,934
R-A6x85/13MI	38°	6 × 85 ml	21,726 g	13,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30314826	2,961
R-A4x85/12MI	30°	4 × 85 ml	14,809 g	12,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30314827	3,032
R-S16x50/4MI	0-90°	16 × 50 ml	3,735 g	4,500 rpm	FC5816R; FC5816	30314828	3,163
R-A10x50/10MI	38°	10 × 50 ml	16,022 g	10,500 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30314829	3,758
R-A6x50/6MI	40°	6 × 50 ml	4,427 g	6,000 rpm	FC5718R; FC5718; FC5714	30314830	1,289
R-A6x50/13MI	26°	6 × 50 ml	15,869 g	13,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30314831	2,567
R-A30x15/4MI	35°	30 × 15 ml	2,830 g	4,500 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5714	30314832	2,006
R-A20x10/12MI	30°	20 × 10 ml	15,775 g	12,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30314833	2,654
R-A12x15/6MI	32°	12 × 15 ml	4,427 g	6,000 rpm	FC5718R; FC5718; FC5714	30314834	1,300
R-A30x2/14MIS	45°	30 × 1.5 / 2.0 ml	20,595 g	14,000 rpm	FC5718R; FC5718; FC5714; FC5916; FC5916R	30314836	2,076
R-A24X2/16MIS	45°	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5714; FC5916; FC5916R	30642361	1,448
R-A12x2/18MI	40°	12 × 1.5 / 2.0 ml	23,542 g	18,000 rpm	FC5718R; FC5718	30314839	1,857
R-A4xPCR/15I	45°	4 × 8 PCR Strip	15,343 g	15,000 rpm	FC5718R; FC5718	30314841	2,676
R-A44x2/16Mb	32° / 55°	44 × 1.5 / 2.0ml	21,379 g	15,000 rpm	FC5515; FC5515R	30372717	1,453
R-A44x2/16MIb	32° / 55°	44 × 1.5 / 2.0ml	24,325 g	16,000 rpm	FC5816R; FC5718R; FC5816; FC5718; FC5916; FC5916R	30372718	1,638
R-A24x2/13MSb	45°	24 × 1.5 / 2.0 ml	17,317 g	13,500 rpm	FC5513	30472302	738
R-A24xCAP/12b	90°	24 × Capillaries	16,058 g	13,000 rpm	FC5513	30472304	858
R-A8x15/7M	32°	8 × 15 ml	4,445 g	6,800 rpm	FC5707	30472305	563
R-S4X750/10MIS		4 × 750 ml	4,346 g	4,500 rpm	FC5916; FC5916R	30553085	2,415
R-S4X500/7MI	25°	4 × 500mL	10,367 g	8,000 rpm	FC5916; FC5916R	30553086	5,817

FRONTIER™ 5000 ROTORS

Offering Flexibility to Maximize Sample Preparation

Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24x2SC	24 × 1.5 / 2.0 ml	17,317 g	13,500 rpm	30210898	579



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24X2/16MIS	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	30642361	1,448



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24X2/15MS	24 × 1.5 / 2.0 ml	21,953 g	15,200 rpm	30642371	1,289

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138

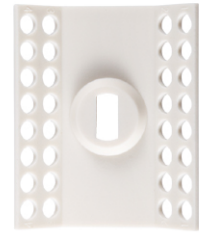


Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A8x2/6M	8 × 1.5 / 2.0 ml	2,560 g	6,000 rpm	30129559	69

Accessories	Item Number	List Price (USD)
Adapter, 0.2ml Tube x8, FC5306	30129561	70
Adapter, 0.5ml Tube x8, FC5306	30129562	70



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A4xPCR/6	4 × 0.2 ml PCR8	2,260 g	6,000 rpm	30129560	69



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A30x2/13MS	30 × 1.5 / 2.0 ml	19,150 g	13,500 rpm	30130872	1,830

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A12x5/14MS	12 × 5 ml	19,978 g	14,500 rpm	30130873	2,032

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D12.6mm, 1.8ml Cryo x6	30130888	426
Adapter, D12.6mm, 1.0ml Cryo x6	30130887	426



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A4xPCR/15	4 × 0.2 ml PCR8	15,342 g	15,000 rpm	30130874	2,388



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A12x15/6M	12 × 15 ml	4,427 g	6,000 rpm	30130877	781

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x50/6M	6 × 50 ml	4,427 g	6,000 rpm	30130878	1,377

Accessories	Item Number	List Price (USD)
Adapter D17mm 15ml RB/FA Tubes x2	30130894	237
Adapter, D17mm, 15ml Tubes x2	30130893	339
Adapter, D18mm, 16ml Tubes x2	30130892	339
Adapter, D26mm, 30ml Tubes x2	30130891	339



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S6x5/4	6 × 5 ml	1,817 g	4,000 rpm	30130880	924

Accessories	Item Number	List Price (USD)
Buckets, For 30130880 x2	30130895	144



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24xCAP/12	24 × Capillaries	14,970 g	12,000 rpm	30130881	2,136



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S4x250/4MI	4 × 250 ml	3,780 g	4,500 rpm	30314820	2,034

Accessories	Item Number	List Price (USD)
Rack, 3x25ml D24.5mm Rim, 2/pk	30314911	428
Screw Cap, Rack of 250ml Rotor, 2/pk	30314901	182
Rack, 9x15ml D17mm RB, 2/pk	30314912	428
Rack, 5x25ml D24.5mm RB, 2/pk	30314910	428
Rack, 2x50ml D29mm Rim, 2/pk	30314908	422
Rack, 1x50ml D29mm Rim, 2/pk, V3	30314909	428
Rack, 3x50ml D29mm FA, 2/pk	30314906	422
Rack, 10x1.6-7ml D13mm Vac, 2/pk	30314917	428
Rack, 1x50ml D34mm RB, 2/pk, V3	30314907	428
Rack, 8x10ml D16mm RB, 2/pk	30314915	422
Rack, 1x100ml D41mm RB, 2/pk	30314904	428
Rack, 3x50ml D29mm RB, 2/pk	30314905	422
Rack, 14x5-7ml D13mm RB, 2/pk	30314916	428
O-ring, Rack of 250ml Rotor, 10/pk	30314902	95
Rack, 7x15ml D17mm FA, 2/pk	30314913	422
Rack, 8x4-10ml D16mm Vac, 2/pk	30304367	434
Adapter, 9x1.5/2.0ml D11mm, 2/pk	30304368	405
Rack, 7x15ml D17mm Rim, 2/pk	30314914	428
Rack, 1x250ml D62mm FB, 2/pk	30314903	422



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x250/8MI	6 × 250 ml	10,016 g	8,000 rpm	30314821	5,250

Accessories	Item Number	List Price (USD)
Adapter, 1x50ml D29mm RB, 2/pk	30304373	379
Adapter, 1x50ml D30mm FA, 2/pk	30304374	373
Adapter, 2x30ml D26mm RB, 2/pk	30304372	379
Adapter, 4x15ml D17mm FA, 2/pk	30304371	373
Adapter, 5x10ml D16mm RB, 2/pk	30304370	379
Adapter, 8x1.5ml D11mm, 2/pk	30304369	373



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S4x100/4MI	4 × 100 ml	3,350 g	4,500 rpm	30314822	1,770

Accessories	Item Number	List Price (USD)
Rack, 10x1.5ml D11mm, 2/pk	30314854	375
Rack, 1x100ml D46mm RB, 2/pk	30314842	369
Rack, 1x15ml D17mm Rim, 2/pk	30314851	375
Rack, 1x25ml D25mm RB, 2/pk	30314849	375
Rack, 1x30ml D25mm Rim, 2/pk	30314848	375
Rack, 1x50ml D29mm FA, 2/pk	30314846	369
Rack, 1x50ml D29mm RB, 2/pk	30314845	369
Rack, 1x50ml D29mm Rim, 2/pk	30314847	369
Rack, 1x50ml D34mm RB, 2/pk	30314844	375
Rack, 1x85ml D38mm RB, 2/pk	30314843	375
Rack, 2x15ml D17mm FA, 2/pk	30314850	369
Rack, 5x4-10ml D16mm Sar, 2/pk	30314858	369
Rack, 7x15ml D17mm RB, 2/pk	30314852	369
Rack, 7x5-7ml D13mm RB, 2/pk	30314856	369
Rack, 7x5-7ml D13mm Vac, 2/pk	30314857	369
Rack, 9x4.5ml D12mm FB, 2/pk	30314855	375
Rack, 9x5-7ml D13mm RB, 2/pk	30314853	375



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S4x100/5MIS	4 × 100 ml	3,885 g	5,000 rpm	30314823	1,491

Accessories	Item Number	List Price (USD)
Bucket, 100ml w/ Cap, Sealable, 2/pk	30314861	540
Bucket, 100ml w/o Cap, 2/pk	30314860	449
Bucket, 2x50ml D29mm FA, w/ Rack, 2/pk	30314881	704
Bucket, 3x15ml D17mm FA, w/ Rack, 2/pk	30314882	719
O-ring, 100ml Bucket, Sealable, 10/pk	30314863	78
Rack, 1x100ml D40mm RB, 2/pk	30314864	331
Rack, 1x15ml D17mm FA, 2/pk	30314872	345
Rack, 1x25ml D25mm RB, 2/pk, v2	30314871	339
Rack, 1x30ml D25mm Rim, 2/pk, V2	30314870	331
Rack, 1x50ml D29mm FA, 2/pk, V2	30314868	331
Rack, 1x50ml D29mm RB, 2/pk, V2	30314867	331
Rack, 1x50ml D29mm Rim, 2/pk, V2	30314869	331
Rack, 1x50ml D34mm RB, 2/pk, V2	30314866	336
Rack, 1x85ml D38mm RB, 2/pk, V2	30314865	336
Rack, 2x15ml D17mm FA, 2/pk, V2	30314873	339
Rack, 2x15ml D17mm Rim, 2/pk	30314874	345
Rack, 3x10ml D17mm Sar, 2/pk	30314878	345
Rack, 4x10ml D17mm Vac, 2/pk	30314880	331
Rack, 4x15ml D17mm RB, 2/pk	30314875	345
Rack, 4x5-7ml D13mm RB, 2/pk	30314879	345
Rack, 5x1.5ml D11mm, 2/pk	30314877	345
Rack, 7x5-7ml D13mm RB, 2/pk, V2	30314876	339
Screw Cap, 100ml Bucket, Sealable, 2/pk	30314862	164



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S6xMTP/4MI	2 × 3MTP	2,716 g	4,500 rpm	30314824	2,567

Accessories	Item Number	List Price (USD)
Adapter, 48x1.5/2.0ml D11mm, 2/pk	30314891	1,161
Bucket, 3xMTP, 2/pk	30314890	4,351



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x85/14MI	6 × 85 ml	20,984 g	13,500 rpm	30314825	2,934

Accessories	Item Number	List Price (USD)
Adapter, 1x15ml D17mm FA, 2/pk	30314897	258
Adapter, 1x15ml D17mm RB, 2/pk	30314893	261
Adapter, 1x16ml D18mm RB, 2/pk	30314899	261
Adapter, 1x30ml D25mm RB, 2/pk	30314894	261
Adapter, 1x50ml D29mm FA, 2/pk	30314896	258
Adapter, 1x50ml D29mm RB, 2/pk, V2	30314895	261
Adapter, 2x15ml D17mm RB, 2/pk	30314898	258



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x85/13MI	6 × 85 ml	21,726 g	13,000 rpm	30314826	2,961

Accessories	Item Number	List Price (USD)
Adapter, 1x15ml D17mm FA, 2/pk	30314897	258
Adapter, 1x15ml D17mm RB, 2/pk	30314893	261
Adapter, 1x16ml D18mm RB, 2/pk	30314899	261
Adapter, 1x30ml D25mm RB, 2/pk	30314894	261
Adapter, 1x50ml D29mm FA, 2/pk	30314896	258
Adapter, 1x50ml D29mm RB, 2/pk, V2	30314895	261
Adapter, 2x15ml D17mm RB, 2/pk	30314898	258



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A4x85/12MI	4 × 85 ml	14,809 g	12,000 rpm	30314827	3,032

Accessories	Item Number	List Price (USD)
Adapter, 1x15ml D17mm FA, 2/pk	30314897	258
Adapter, 1x15ml D17mm RB, 2/pk	30314893	261
Adapter, 1x16ml D18mm RB, 2/pk	30314899	261
Adapter, 1x30ml D25mm RB, 2/pk	30314894	261
Adapter, 1x50ml D29mm FA, 2/pk	30314896	258
Adapter, 1x50ml D29mm RB, 2/pk, V2	30314895	261
Adapter, 2x15ml D17mm RB, 2/pk	30314898	258



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S16x50/4MI	16 × 50 ml	3,735 g	4,500 rpm	30314828	3,163

Accessories	Item Number	List Price (USD)
Rack, 10x15ml D17mm FA, 2/pk	30314583	592
Rack, 14x5-7ml D13mm Vac/Sar, 2/pk	30314584	592
Rack, 12x4-10ml D16mm Vac/Sar, 2/pk	30314585	592
Rack, 4x50ml D29mm FA, 2/pk	30304375	592



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A10x50/10MI	10 × 50 ml	16,022 g	10,500 rpm	30314829	3,758

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165
Adapter 1x15ml D17mm FA 2/pk V2	30472307	152
Adapter 1x15ml D17mm RB 2/pk V2	30472300	152



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x50/6MI	6 × 50 ml	4,427 g	6,000 rpm	30314830	1,289

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165
Adapter D17mm 15ml RB/FA Tubes x2	30130894	237
Adapter, D17mm, 15ml Tubes x2	30130893	339
Adapter, D18mm, 16ml Tubes x2	30130892	339
Adapter, D26mm, 30ml Tubes x2	30130891	339



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A6x50/13MI	6 × 50 ml	15,869 g	13,000 rpm	30314831	2,567

Accessories	Item Number	List Price (USD)
Adapter, D17mm, 15ml Tubes x2	30130893	339
Adapter, D18mm, 16ml Tubes x2	30130892	339
Adapter, D26mm, 30ml Tubes x2	30130891	339
Adapter, 1x15ml D17.5mm FA, 2/pk	30314892	290



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A30x15/4MI	30 × 15 ml	2,830 g	4,500 rpm	30314832	2,006

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A20x10/12MI	20 × 10 ml	15,775 g	12,000 rpm	30314833	2,654



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A12x15/6MI	12 × 15 ml	4,427 g	6,000 rpm	30314834	1,300

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A30x2/14MIS	30 × 1.5 / 2.0 ml	20,595 g	14,000 rpm	30314836	2,076

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24x2/16MIS	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	30642361	1,448

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A12x2/18MI	12 × 1.5 / 2.0 ml	23,542 g	18,000 rpm	30314839	1,857

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138
Adapter, 1x1.5ml for over16000xg, 6/pk	30314900	143



Model	Capacity	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A4xPCR/15I	4 × 8 PCR Strip	15,343 g	15,000 rpm	30314841	2,676



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A44x2/16Mb	44 × 1.5 / 2.0ml	21,379 g	15,000 rpm	30372717	1,453

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A44x2/16MIb	44 × 1.5 / 2.0ml	24,325 g	16,000 rpm	30372718	1,638

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24x2/13MSb	24 × 1.5 / 2.0 ml	17,317 g	13,500 rpm	30472302	738

Accessories	Item Number	List Price (USD)
Adapter, D8mm, 0.5ml Tubes x6	30130885	138
Adapter, D6mm, 0.2/0.4ml Tubes x6	30130884	138



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A24xCAP/12b	24 × Capillaries	16,058 g	13,000 rpm	30472304	858



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-A8x15/7M	8 × 15 ml	4,445 g	6,800 rpm	30472305	563

Accessories	Item Number	List Price (USD)
Adapter, D11mm, 1.5/2.0ml Tubes x6	30130886	271
Adapter, D13.5mm, 5ml Tubes x2	30130890	151
Adapter, D13.5mm, 7ml Tubes x2	30130889	165



Model	Maximum Capacity(Rotor)	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S4X750/10MIS	4 × 750 ml	4,346 g	4,500 rpm	30553085	2,415

Accessories	Item Number	List Price (USD)
Adapter 15x1.5/2.0ml D11mm MTB x2	30559412	373
Adapter 1x175/225ml D61mm FA x2	30559414	373
Adapter 6x15ml D17mm FA x2	30559422	373
Rack 38x1.1/1.4ml D8mm Sar x2	30559377	501
Rack 5x50ml D29mm FAW/R x2	30553129	501
Bucket 1x750ml D99mm FB x2 V1	30602502	942
Rack 14x15ml D17mm FA x2	30553133	501
Rack 1x250ml D62mm FB x2 V1	30553125	501
Holder removing aid for Bucket 30553104	30553105	246
Lid Assembly for bucket 30553104 PC x2	30553117	355
O-Ring for bucket 30553104 SIL x2	30553118	173
Adapter 1x50ml D29.5mm FA x2	30559419	373
Lid Assembly for Bucket 30602502 PC 2x	30553122	279
Rack 17x15ml D17mm FA x2	30553134	501
Rack 1x175/225ml D61mm FA x2	30553126	501
Rack 32x7ml D13mm RB x2	30553138	501
Adapter 1x250ml D61.5mm FB x2	30564850	373
Rack 7x50ml D29mm FA x2	30553130	501
Adapter 3x50ml D29mm RB x2	30559420	373
Adapter 1x250ml D60.5mm FA x2	30559416	373
Bucket MTP x2 V2	30553119	1,017
O-Ring for bucket 30602502 NBR 10x	30553123	173
Rack 18x15ml D17mm RB x2	30553135	501
Rack 3x100ml D41mm RB x2	30553127	501
Rack 27x1.8/7ml D13mm Vac/Sar x2	30553139	501
Rack 7x50ml D29mm RB x2	30553131	501
Adapter 4x30ml D25.5mm RB x2	30559421	373
Adapter 1x175/225 ml D61.5mm FA x2	30559417	373
Rack 8x30ml D26mm RB x2	30553132	501
Rack 1x500ml D96mm FA x2	30553124	501
Rack 21x10ml D16mm RB x2	30553136	501
Bucket MTP x2 V1	30553104	2,224
Rack 5x50ml D29mm FA x2	30553128	501
Rack 18x4/10ml D16mm Vac/Sar x2	30553140	501



Model	Capacity	Max g-force	Maximum Speed	Item Number	List Price (USD)
R-S4X500/7MI	4 × 500mL	10,367 g	8,000 rpm	30553086	5,817

Accessories	Item Number	List Price (USD)
Adapter 6x15ml D17mm FA x2	30559422	373
Adapter 1x50ml D29.5mm FA x2	30559419	373
Adapter 1x250ml D61.5mm FB x2	30564850	373
Adapter 3x50ml D29mm RB x2	30559420	373
Adapter 1x250ml D60.5mm FA x2	30559416	373
Adapter 4x30ml D25.5mm RB x2	30559421	373
Adapter 1x175/225 ml D61.5mm FA x2	30559417	373





	Endeavor™ Orbital Shaker	Endeavor™ Orbital Shaker	Endeavor™ Orbital Shaker
Model	e-E51LD0403	e-E51LD0420	e-E51LDMP03
Speed Range	100 - 800 rpm	50-300 rpm	100 - 1200 rpm
Timer	Up to 99 hours 59 minutes	Up to 99 hours 59 minutes	Up to 99 hours 59 minutes
Motion	Orbital	Orbital	Orbital
Orbit	3 mm	20 mm	3 mm
Max Weight Capacity	8.8 lbs	8.8 lbs	4 Microplates / 2 Micro-tube Racks / 4 Deepwell Plates
Audible Alarm	•	•	•
Load Sensor	—	—	—
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•
Overload Protection	•	•	•
User Calibration (Speed)	—	—	—
RS232 Interface	•	•	•
Programs	On-board programming for 8 separate, 5-step programs	On-board programming for 8 separate, 5-step programs	On-board programming for 8 separate, 5-step programs
Included Tray (L x W)	11.75 x 8.75"	11.75 x 8.75"	11 x 7.75"
Tray / Platform Options	Universal Platform, Adjustable Platform	Universal Platform, Adjustable Platform	—



	High Speed Microplate Shaker	Extreme Environment Shaker	Heavy Duty Shaker	Heavy Duty Shaker	Heavy Duty Shaker
Model	SHHSMPDG	SHEX1619DG	SHHD1619AL	SHHD1619DG	SHHD2325AL
Speed Range	600 rpm to 2500 rpm	15 to 500 rpm	25 to 500 rpm	15 to 500 rpm	25 to 500 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 to 120 minutes	1 second to 160 hours	1 to 120 minutes
Motion	Orbital	Orbital	Orbital	Orbital	Orbital
Orbit	3.6 mm	19 mm	19 mm	19 mm	25 mm
Max Weight Capacity	48 microplates	35 lbs	35 lbs	35 lbs	50 lbs
Audible Alarm	•	•	—	•	—
Load Sensor	•	•	—	•	—
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•	•	•
Overload Protection	•	•	—	•	—
User Calibration (Speed)	•	•	—	•	—
RS232 Interface	•	•	—	•	—
Included Tray (L x W)	12.3 x 11"	11 x 13"	11 x 13"	11 x 13"	18 x 24"
Tray / Platform Options (L x W)	12.25 x 11" (31.1 x 27.9 cm)	11 x 13", 13 x 13", 18 x 18", 18 x 24" Adjustable Platform Separatory Funnel Platform	11 x 13", 13 x 13", 18 x 18", 18 x 24" Adjustable Platform Separatory Funnel Platform	11 x 13", 13 x 13", 18 x 18", 18 x 24" Adjustable Platform Separatory Funnel Platform	18 x 24", 18 x 30" Adjustable Platform Large Vessel Carrier Platform

• Yes *Maximum speed/tilt angle may vary with heavy or unbalanced loads. **Centered on tray.



	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker
Model	SHHD2325DG	SHHD4525DG	SHHD4550DG	SHHD6825DG	SHHD6850DG
Speed Range	20 to 500 rpm	15 to 500 rpm	15 to 300 rpm	15 to 500 rpm	15 to 300 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Orbital	Orbital	Orbital	Orbital
Orbit	25 mm	25 mm	51 mm	25 mm	51 mm
Max Weight Capacity	50 lbs	100 lbs	100 lbs	150 lbs	150 lbs
Audible Alarm	•	•	•	•	•
Load Sensor	•	•	•	•	•
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•	•	•
Overload Protection	•	•	•	•	•
User Calibration (Speed)	•	•	•	•	•
RS232 Interface	•	•	•	•	•
Included Tray (L x W)	18 x 24"	24 x 24"	24 x 24"	24 x 36"	24 x 36"
Tray / Platform Options (L x W)	18 x 24", 18 x 30" Adjustable Platform Large Vessel Carrier Platform	24 x 24" Large Vessel Carrier Platform	24 x 24" Large Vessel Carrier Platform	24 x 36" Large Vessel Carrier Platform	24 x 36" Large Vessel Carrier Platform



	Rocking Shaker	Rocking Shaker	Waving Shaker	Waving Shaker	Reciprocating Shaker
Model	SHRK04DG	SHRK07AL1	SHWV02DG	SHWV02AL	SHRC0719DG
Speed Range	1 to 50 rpm*	1 to 75 rpm*	1 to 30 rpm*	1 to 75 rpm*	20 to 300 rpm
Timer	1 second to 160 hours	1 minute to 120 minutes	1 second to 160 hours	1 minute to 120 minutes	1 second to 160 hours
Motion	Rocking	Rocking	Waving	Waving	Reciprocating
Orbit	Tilt Angle: 0 to 15°	Tilt Angle: 0 to 15°	Tilt Angle: 0 to 20° *	Tilt Angle: 0 to 16°	Stroke: 19 mm
Max Weight Capacity	10 lbs**	16 lbs**	5 lbs**	5 lbs**	15 lbs
Audible Alarm	•	—	•	—	•
Load Sensor	—	—	—	—	•
Motor Type	Stepper Motor	Stepper Motor	Stepper Motor	Stepper Motor	Brushless DC Motor
CO ₂ Environment	•	—	•	—	•
Overload Protection	•	—	•	—	•
User Calibration (Speed)	—	—	—	—	•
RS232 Interface	—	—	—	—	•
Included Tray (L x W)	12.75 x 10"	14 x 11"	11.75 x 8.75"	14 x 11"	11 x 13"
Tray / Platform Options (L x W)	Stacking Tray	Stacking Tray	Stacking Tray	—	11 x 13", 13 x 13", 18 x 18", 18 x 24" Separatory Funnel Platform

• Yes *Maximum speed/tilt angle may vary with heavy or unbalanced loads. **Centered on tray.

ENDEAVOR™ 5000

Digital Light Duty Orbital Shakers You Can Trust for Everyday Shaking

Display

Easy-to-read, LED display for speed/time allow the operator to view all settings simultaneously and control knobs with dial markings for speed/time

Communication

Easy access RS232 communication port

Construction

Cast aluminum

Design Features

Visual and audio alarm when timer counts down to zero or an error occurs, small footprint to save bench space, advanced microprocessor control slowly ramps the shaker tray up to the desired speed and avoids splashing, durable chemical-resistant polymer housing, sturdy easy-to-clean aluminum standard tray with attachment points for accessories, optional accessory platform to expand capacity, control knobs, ON/OFF switch

Operation

Detachable 3-wire cord and plug (included)



Budget-Friendly—no need to buy a separate tray. Ready to attach a wide variety of accessories to customize for low to mid volume applications.

Programmable—save time and guarantee reproducible results. Simple on-board menu to set, store and recall multi-step programs.

Data logging and control—remote function permits PC control and data transfer.

Model	Control	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
e-E51LD0403	Digital	100 rpm – 800 rpm	±2 rpm, Above 100 rpm ±2% of set speed	Up to 99 hours 59 minutes	0.1 in (3 mm)	4.0 kg*	11.75 in x 8.75 in (30 cm x 22.2 cm)	30770909	1,514
e-E51LDMP03	Digital	100 rpm – 1200 rpm	±2 rpm, Above 100 rpm ±2% of set speed	Up to 99 hours 59 minutes	0.1 in (3 mm)	4 Microplates	11 in x 7.75 in (28 cm x 19.7 cm)	30770911	1,082
e-E51LD0420	Digital	50 rpm – 300 rpm	±2 rpm, Above 100 rpm ±2% of set speed	Up to 99 hours 59 minutes	0.8 in (20 mm)	4.0 kg*	11.75 in x 8.75 in (30 cm x 22.2 cm)	30770910	1,406

Accessories for e-E51LD0403 and e-E51LD0420

	Item Number	List Price (USD)
Flask Clamp, 10 mL	30400084	56
Flask Clamp, 25 mL	30400085	56
Flask Clamp, 50 mL	30400086	59
Flask Clamp, 125 mL	30400087	59
Flask Clamp, 250 mL	30400088	59
Flask Clamp, 500 mL	30400089	65
Flask Clamp, 1L	30400090	85
500 mL Media Bottle Clamp	30400097	165
Flask Clamp PVC 125mL	30400099	64
Flask Clamp PVC 250mL	30400100	65
Flask Clamp PVC 500mL	30400101	71
Micro Tube Rack	30400114	239
Test Tube Rack 10-13 mm Diameter	30400115	263
Test Tube Rack 14-16 mm Diameter	30400116	263

Accessories for e-E51LDMP03

	Item Number	List Price (USD)
Micro Tube Rack	30400114	239
Deep Plate Kit, set of 4	30772773	163

Accessories for e-E51LD0403 and e-E51LD0420

	Item Number	List Price (USD)
Test Tube Rack 18-20 mm Diameter	30400117	263
Test Tube Rack 22-25 mm Diameter	30400118	263
Test Tube Rack For 15 mL Tubes	30400119	272
Test Tube Rack For 50 mL Tubes	30400120	272
Universal Platform 8.75 x 11.75 in / 22 x 30 cm e-E51LD	30770938	249
Adjustable Platform 8.75 x 11.75 in / 22 x 30 cm, 2 bars	30400121	758
Roller Bar, 8.6 in / 22 cm (for Adjustable Platform only)	30400122	70
Dimpled Mat, 8.75 x 11.75 in / 22 x 30 cm	30400124	81
Rubber Mat 11.4 x 8.75 in / 29 x 22 cm	30770935	76
Sticky Mat 8.75 x 7.0 in / 22 x 18 cm	30770939	98
Universal Harness e-E51LD	30770940	98

*4 x 500 ml flasks
6 x 250 ml flasks
6 x 125 ml flasks
From 39 x 10 ml up to 3 x 1 L flasks (Universal Platform 30770938 required for expanded capacity from 39 x 10 ml up to 3 x 1L flasks)



EXTREME ENVIRONMENT SHAKERS

High Performance Orbital Shaker Designed to Withstand Extreme Environments Up To 100% Humidity

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously

Communication

RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction

Cold rolled steel (CRS) and stainless steel, external control module, thin ribbon cable (5.5 feet or 1.7 m) easily passes underneath an incubator door or via incubator's utility port

Design Features

Built-in tray (11x13 inch or 28x33 cm) with a non-slip rubber mat (included)

Operation

Detachable 3-wire cord and plug (included)



Defy the elements - rely on this orbital shaker's unique construction to deliver exceptional speed control, accuracy and durability under the most extreme environmental conditions.

Best in class load capacity to maximize efficiency in your incubator. Customize the Extreme Environment Shaker for your unique application with over 50 accessories.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The triple eccentric drive provides smooth, stable shaking motion throughout the entire speed range.

Model	Control	Speed Range	Speed Accuracy	Timer	Orbit	Tray Dimensions	Item Number	List Price (USD)
SHEX1619DG	Digital	15 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	0.8 in (19 mm)	13 in x 13 in (33 cm x 33 cm)	30391809	4,542

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Double Tier Braces, Set of 4	30400051	168	Separatory Funnel Platform 46 X 46 cm	30400083	891
Universal Platform, 28 X 33 cm, S/S	30400052	309	Flask Clamp, 10 mL	30400084	56
Universal Platform, 33 X 33 cm, S/S	30400053	439	Flask Clamp, 25 mL	30400085	56
Universal Platform, 46 X 46 cm, S/S	30400054	524	Flask Clamp, 50 mL	30400086	59
Universal Platform, 61 X 46 cm, S/S	30400056	592	Flask Clamp, 125 mL	30400087	59
Rubber Mat, 28 x 33 cm	30400060	88	Flask Clamp, 250 mL	30400088	59
Rubber Mat, 33 x 33 cm	30400061	107	Flask Clamp, 500 mL	30400089	65
Rubber Mat, 46 x 46 cm	30400062	154	1 Liter Erlenmeyer Flask Clamp	30400090	85
Rubber Mat, 46 X 61 cm	30400063	169	2 Liter Erlenmeyer Flask Clamp	30400091	133
Culture Platform with Mat, 46 X 46 cm	30400066	522	2.8 Liter Erlenmeyer Flask Clamp	30400092	175
Culture Platform with Mat, 46 X 61 cm	30400067	545	3 Liter Erlenmeyer Flask Clamp	30400093	237
Adjustable Platform, 46 X 46 cm	30400068	807	4 Liter Erlenmeyer Flask Clamp	30400094	218
Adjustment Bar, 46 cm	30400073	93	5 Liter Erlenmeyer Flask Clamp	30400095	264
Dedicated Platform, 33 X 33 cm, 125 mL	30400075	836	6 Liter Erlenmeyer Flask Clamp	30400096	258
Dedicated Platform, 33 X 33 cm, 250 mL	30400076	836	500 mL Media Bottle Clamp	30400097	165
Dedicated Platform, 33 X 33 cm, 500 mL	30400077	836	1000 mL Media Bottle Clamp	30400098	180
Dedicated Platform, 33 X 33 cm, 1000 mL	30400078	836	Flask Clamp PVC 125mL	30400099	64
Dedicated Platform, 46 X 46 cm, 125 mL	30400079	918	Flask Clamp PVC 250mL	30400100	65
Dedicated Platform, 46 X 46 cm, 250 mL	30400080	918	Flask Clamp PVC 500mL	30400101	71
Dedicated Platform, 46 X 46 cm, 500 mL	30400081	918	Flask Clamp PVC 1000mL	30400102	82
Dedicated Platform, 46 X 46 cm, 1000 mL	30400082	918	Flask Clamp PVC 2000mL	30400103	134

Accessories continued on next page



EXTREME ENVIRONMENT SHAKERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Clamp Microplate Stainless Steel	30400104	89
Test Tube Rack 13 mm Pivoting	30400105	458
Test Tube Rack 16 mm Pivoting	30400106	458
Test Tube Rack 20 mm Pivoting	30400107	458
Test Tube Rack 25 mm Pivoting	30400108	458
Test Tube Rack 30 mm Pivoting	30400109	458
Test Tube Rack 10-14 mm Stationary	30400110	516
Test Tube Rack 16-20 mm Stationary	30400111	516
Test Tube Rack 21-25 mm Stationary	30400112	516

Accessories	Item Number	List Price (USD)
Test Tube Rack 50 mL Tubes Stationary	30400113	540
Micro Tube Rack	30400114	239
Test Tube Rack 10-13 mm Diameter	30400115	263
Test Tube Rack 14-16 mm Diameter	30400116	263
Test Tube Rack 18-20 mm Diameter	30400117	263
Test Tube Rack 22-25 mm Diameter	30400118	263
Test Tube Rack For 15 mL Tubes	30400119	272
Test Tube Rack For 50 mL Tubes	30400120	272

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously and control knobs with dial markings (analog models)

Communication

RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction

Cold rolled steel (CRS)

Design Features

Built-in tray (11 × 13 inch or 28 × 33 cm) with a non-slip rubber mat (included on 16kg models)

Operation

Detachable 3-wire cord and plug (included)



Ready for your lab - all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Control	Speed Range	Speed Accuracy	Timer	Orbit	Capacity	Tray Dimensions	Item Number	List Price (USD)
SHHD1619AL	Analog	25 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 minute – 120 minutes	0.8 in (19 mm)	16 kg	11 in × 13 in (27.9 cm × 33 cm)	30391307	2,920
SHHD1619DG	Digital	15 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	0.8 in (19 mm)	16 kg	11 in × 13 in (27.9 cm × 33 cm)	30391807	3,477
SHHD2325AL	Analog	25 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 minute – 120 minutes	1 in (25 mm)	22.7 kg	18 in × 24 in (45.7 cm × 61 cm)	30391835	6,408
SHHD2325DG	Digital	20 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	1 in (25 mm)	22.7 kg	18 in × 24 in (45.7 cm × 61 cm)	30391842	6,791
SHHD4525DG	Digital	15 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	1 in (25 mm)	45.4 kg	24 in × 24 in (61 cm × 61 cm)	30391863	9,658
SHHD4550DG	Digital	15 rpm – 300 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	2 in (51 mm)	45.4 kg	24 in × 24 in (61 cm × 61 cm)	30391870	9,988
SHHD6825DG	Digital	15 rpm – 500 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	1 in (25 mm)	68 kg	24 in × 36 in (61 cm × 91 cm)	30391877	10,891
SHHD6850DG	Digital	15 rpm – 300 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	2 in (51 mm)	68 kg	24 in × 36 in (61 cm × 91 cm)	30391884	12,123

Accessories	Item Number	List Price (USD)
Double Tier Braces, Set of 4	30400051	168
Universal Platform, 28 X 33 cm, S/S	30400052	309
Universal Platform, 33 X 33 cm, S/S	30400053	439
Universal Platform, 46 X 46 cm, S/S	30400054	524
Universal Platform, 61 X 46 cm, S/S	30400056	592
Universal Platform, 61 X 61 cm, S/S	30400057	1,400
Universal Platform, 76 X 46 cm, S/S	30400058	1,349
Universal Platform, 91 X 61 cm, S/S	30400059	1,792

Accessories continued on next page



Accessories	Item Number	List Price (USD)
Rubber Mat, 28 × 33 cm	30400060	88
Rubber Mat, 33 × 33 cm	30400061	107
Rubber Mat, 46 × 46 cm	30400062	154
Rubber Mat, 46 X 61 cm	30400063	169
Rubber Mat, 61 X 61 cm	30400064	202
Rubber Mat, 61 X 91 cm	30400065	222
Culture Platform with Mat, 46 X 46 cm	30400066	522
Culture Platform with Mat, 46 X 61 cm	30400067	545

HEAVY DUTY ORBITAL SHAKERS ACCESSORIES

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Adjustable Platform, 46 X 46 cm	30400068	807	5 Liter Erlenmeyer Flask Clamp	30400095	264
Adjustable Platform, 61 X 46 cm	30400069	1,151	6 Liter Erlenmeyer Flask Clamp	30400096	258
Large Vessel Carrier, 76 X 46 cm	30400070	1,898	500 mL Media Bottle Clamp	30400097	165
Large Vessel Carrier, 61 X 61 cm	30400071	1,992	1000 mL Media Bottle Clamp	30400098	180
Large Vessel Carrier, 91 X 61 cm	30400072	2,550	Flask Clamp PVC 125mL	30400099	64
Adjustment Bar, 46 cm	30400073	93	Flask Clamp PVC 250mL	30400100	65
Adjustment Bar, 61 cm	30400074	117	Flask Clamp PVC 500mL	30400101	71
Dedicated Platform, 33 X 33 cm, 125 mL	30400075	836	Flask Clamp PVC 1000mL	30400102	82
Dedicated Platform, 33 X 33 cm, 250 mL	30400076	836	Flask Clamp PVC 2000mL	30400103	134
Dedicated Platform, 33 X 33 cm, 500 mL	30400077	836	Clamp Microplate Stainless Steel	30400104	89
Dedicated Platform, 33 X 33 cm, 1000 mL	30400078	836	Test Tube Rack 13 mm Pivoting	30400105	458
Dedicated Platform, 46 X 46 cm, 125 mL	30400079	918	Test Tube Rack 16 mm Pivoting	30400106	458
Dedicated Platform, 46 X 46 cm, 250 mL	30400080	918	Test Tube Rack 20 mm Pivoting	30400107	458
Dedicated Platform, 46 X 46 cm, 500 mL	30400081	918	Test Tube Rack 25 mm Pivoting	30400108	458
Dedicated Platform, 46 X 46 cm, 1000 mL	30400082	918	Test Tube Rack 30 mm Pivoting	30400109	458
Separatory Funnel Platform 46 X 46 cm	30400083	891	Test Tube Rack 10-14 mm Stationary	30400110	516
Flask Clamp, 10 mL	30400084	56	Test Tube Rack 16-20 mm Stationary	30400111	516
Flask Clamp, 25 mL	30400085	56	Test Tube Rack 21-25 mm Stationary	30400112	516
Flask Clamp, 50 mL	30400086	59	Test Tube Rack 50 mL Tubes Stationary	30400113	540
Flask Clamp, 125 mL	30400087	59	Micro Tube Rack	30400114	239
Flask Clamp, 250 mL	30400088	59	Test Tube Rack 10-13 mm Diameter	30400115	263
Flask Clamp, 500 mL	30400089	65	Test Tube Rack 14-16 mm Diameter	30400116	263
1 Liter Erlenmeyer Flask Clamp	30400090	85	Test Tube Rack 18-20 mm Diameter	30400117	263
2 Liter Erlenmeyer Flask Clamp	30400091	133	Test Tube Rack 22-25 mm Diameter	30400118	263
2.8 Liter Erlenmeyer Flask Clamp	30400092	175	Test Tube Rack For 15 mL Tubes	30400119	272
3 Liter Erlenmeyer Flask Clamp	30400093	237	Test Tube Rack For 50 mL Tubes	30400120	272
4 Liter Erlenmeyer Flask Clamp	30400094	218			

ROCKING & WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed

Display

Easy-to-read, independent LED displays for speed, tilt angle and time allow the operator to view all settings simultaneously (digital models) and basic control knobs with dial markings for speed, tilt angle and time (analog models)

Construction

Cast aluminum housing, non-slip rubber mat (included), stacking tray option (with all models except the analog Waver model)

Design Features

Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models

Operation

Detachable 3-wire cord and plug (included)



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Speed Range	Speed Accuracy	Motion	Timer	Maximum Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
SHRK07AL1	1 rpm – 75 rpm	-	Rocking, 0 – 15°	1 minute – 120 minutes	7.3 kg	14 in × 11 in (35.6 cm × 27.9 cm)	30391959	1,325
SHRK07AL2	1 rpm – 75 rpm	-	Rocking, 0 – 15°	1 minute – 120 minutes	7.3 kg	14 in × 11 in (35.6 cm × 27.9 cm)	30391966	1,461
SHWV02DG	1 rpm – 30 rpm	±1 rpm	Waving, 0 – 20°	1 second – 160 hours	2.3 kg	11.75 in × 8.75 in (29.9 cm × 22.2 cm)	30391947	2,379
SHWV02AL	1 rpm – 75 rpm	-	Waving, 0 – 16°	1 second – 160 hours	2.3 kg	14 in × 11 in (35.6 cm × 27.9 cm)	30391973	1,887
SHRK04DG	1 rpm – 50 rpm	±1 rpm	Rocking, 0 – 15°	1 second – 160 hours	4.5 kg	12.75 in × 10 in (32.4 cm × 25.4 cm)	30391994	1,612

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Double Tier Platform Kit Rocker SHRK04DG	30400137	201	Dimpled Mat For Rocker SHRK04DG	30400140	84
Double Tier Platform Kit Waver SHWV02DG	30400138	242	Dimpled Mat For Waver SHWV02DG	30400142	84
Double Tier Platform Kit Rocker SHRK07AL	30400139	175	Dimpled Mat For Rocker SHRK07AL	30400144	97

RECIPROCATING SHAKERS

Providing Consistent, Repeatable Reciprocating Shaking Action for a Variety of Applications

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously

Construction

Cold rolled steel (CRS)

Design Features

Built-in tray (11x13 inch or 28x33 cm) with a non-slip rubber mat (included)

Operation

Detachable 3-wire cord and plug (included)



A flexible unit for the lab - our multi-purpose Reciprocating Shakers can be customized to fit your unique workflow needs using a wide variety of accessories.

Reciprocating motion is ideal for gentle-to-vigorous mixing of separatory funnels with the sturdy separatory funnel platform. Other optional platforms for flask clamps, media bottles and tube racks.

Designed for safety - speed ramping feature slowly increases speed to avoid splashing. Load sensor detects unbalanced conditions and automatically reduces to a safe speed to protect samples.

Model	Speed Range	Speed Accuracy	Timer	Stroke	Maximum Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
SHRC0719DG	20 rpm – 300 rpm	±1 rpm, Above 100 rpm ±1% of set speed	1 second – 160 hours	0.75 (19)	6.8 kg	11 in x 13 in (27.9 cm x 33 cm)	3,083	2,936

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Universal Platform, 28 X 33 cm, S/S	30400052	309	Flask Clamp, 50 mL	30400086	59
Universal Platform, 33 X 33 cm, S/S	30400053	439	Flask Clamp, 125 mL	30400087	59
Universal Platform, 46 X 46 cm, S/S	30400054	524	Flask Clamp, 250 mL	30400088	59
Universal Platform, 61 X 46 cm, S/S	30400056	592	Flask Clamp, 500 mL	30400089	65
Rubber Mat, 28 x 33 cm	30400060	88	1 Liter Erlenmeyer Flask Clamp	30400090	85
Rubber Mat, 33 x 33 cm	30400061	107	2 Liter Erlenmeyer Flask Clamp	30400091	133
Rubber Mat, 46 x 46 cm	30400062	154	2.8 Liter Erlenmeyer Flask Clamp	30400092	175
Rubber Mat, 46 X 61 cm	30400063	169	3 Liter Erlenmeyer Flask Clamp	30400093	237
Culture Platform with Mat, 46 X 46 cm	30400066	522	4 Liter Erlenmeyer Flask Clamp	30400094	218
Culture Platform with Mat, 46 X 61 cm	30400067	545	5 Liter Erlenmeyer Flask Clamp	30400095	264
Dedicated Platform, 33 X 33 cm, 125 mL	30400075	836	6 Liter Erlenmeyer Flask Clamp	30400096	258
Dedicated Platform, 33 X 33 cm, 250 mL	30400076	836	500 mL Media Bottle Clamp	30400097	165
Dedicated Platform, 33 X 33 cm, 500 mL	30400077	836	1000 mL Media Bottle Clamp	30400098	180
Dedicated Platform, 33 X 33 cm, 1000 mL	30400078	836	Flask Clamp PVC 125mL	30400099	64
Dedicated Platform, 46 X 46 cm, 125 mL	30400079	918	Flask Clamp PVC 250mL	30400100	65
Dedicated Platform, 46 X 46 cm, 250 mL	30400080	918	Flask Clamp PVC 500mL	30400101	71
Dedicated Platform, 46 X 46 cm, 500 mL	30400081	918	Flask Clamp PVC 1000mL	30400102	82
Dedicated Platform, 46 X 46 cm, 1000 mL	30400082	918	Flask Clamp PVC 2000mL	30400103	134
Separatory Funnel Platform 46 X 46 cm	30400083	891	Clamp Microplate Stainless Steel	30400104	89
Flask Clamp, 10 mL	30400084	56	Test Tube Rack 13 mm Pivoting	30400105	458
Flask Clamp, 25 mL	30400085	56	Test Tube Rack 16 mm Pivoting	30400106	458

Accessories continued on next page



RECIPROCATING SHAKERS ACCESSORIES

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Test Tube Rack 20 mm Pivoting	30400107	458	Micro Tube Rack	30400114	239
Test Tube Rack 25 mm Pivoting	30400108	458	Test Tube Rack 10-13 mm Diameter	30400115	263
Test Tube Rack 30 mm Pivoting	30400109	458	Test Tube Rack 14-16 mm Diameter	30400116	263
Test Tube Rack 10-14 mm Stationary	30400110	516	Test Tube Rack 18-20 mm Diameter	30400117	263
Test Tube Rack 16-20 mm Stationary	30400111	516	Test Tube Rack 22-25 mm Diameter	30400118	263
Test Tube Rack 21-25 mm Stationary	30400112	516	Test Tube Rack For 15 mL Tubes	30400119	272
Test Tube Rack 50 mL Tubes Stationary	30400113	540	Test Tube Rack For 50 mL Tubes	30400120	272

HIGH SPEED MICROPLATE SHAKERS

High Speed Shaking for up to 48 Microplates

Display

Independent LED displays for speed and time

Communication

RS-232

Construction

Die Cast Aluminum

Design Features

Programmable pulse feature with adjustments for pulse ON and pulse OFF intervals of between 1 and 59 seconds. Program timer to count down from set time and turn off when timer reaches zero, or to run in continuous mode as timer counts accumulated time until user turns it off.



Sturdy, adjustable top plate secures up to 48 microplates, 6 deep well plates, or small tubes less than 5 in. (12.7 cm) tall and up to 7 lb. (3.2 kg).

For difficult to mix samples, or to prevent overheating samples while shaking, the Pulse Feature can be adjusted to Pulse ON and Pulse OFF for intervals of between 1 and 59 seconds.

Independent LEDs and Touchpad Control for Speed and Time allow you to accurately reproduce the exact settings every time.

Model	Motion	Speed Range	Capacity	Dimensions	Tray Dimensions	Timer	Item Number	List Price (USD)
SHHSMPDG	Orbital, 3.6 mm	600 rpm – 2,500 rpm	48 microplates	15.5 in × 12.8 in × 12 in (394 mm × 325 mm × 305 mm)	12.25 in × 11 in (311 mm × 279 mm)	1 second – 160 hours	30573784	6,208



	Incubating Cooling Thermal Shakers	Incubating Light Duty Orbital Shaker	Incubating Light Duty Orbital Shakers
Model	ISTHBLCTS (Heat/Cool) ISTHBLHTS (Heat)	ISLD04HDG	ISLDMPHDG ISLDMPHDGL
Temperature Range	17 below ambient to 100°C / ambient +4 to 100°C	Ambient +5° to 65°C	Ambient +5° to 65°C
Speed Range	300 to 3000 rpm	100 to 1200 rpm	100 to 1200 rpm
Timer	1 minute to 99 hours, 59 min	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Orbital	Orbital
Orbit	3 mm	3 mm	3 mm
Max Weight Capacity	1 Block	8 lbs	4 Microplates / 2 Micro-Tube Racks
Audible Alarm	•	•	•
Load Sensor	•	—	—
Drive System	—	Triple Eccentric	Triple Eccentric
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting
Restart/Power Out	•	•	•
Ramp to Speed	•	•	•
Temperature Overshoot Protection	•	—	—
Overload Protection	•	•	•
User Calibration (Temperature)	•	•	•
User Calibration (Speed)	•	—	—
Interface	USB	—	—
Overall Dimensions (L × W × H)	10.59 × 10.31 × 5.39"	17 × 11 × 10.5"	17 × 11 × 7.75"
Included Tray (L × W)	N/A	11 × 7.75"	11 × 7.75"
Platform Options (L × W)	N/A	N/A	N/A

- Yes ** Maximum speed/tilt angle may vary with heavy or unbalanced loads.
** Centered on tray.



	Incubating Cooling Light Duty Orbital Shaker	Incubating Rocking Shaker	Incubating Waving Shaker	Incubating Heavy Duty Orbital Shakers
Model	ISICMBCDG	ISRK04HDG	ISWV02HDG	ISHD16HDG, ISHD23HDG, ISHD23CDG
Temperature Range	10°C Below Ambient to 65°C	Ambient +5° to 65°C	Ambient +5° to 65°C	Ambient +5°C to 65°C, 15°C below ambient to 65°C (ISHD23CDG Models only)
Speed Range	100 to 1200 rpm	1 to 50 rpm	1 to 30 rpm	15 to 500 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Rocking	Waving	Orbital
Orbit	3 mm	Tilt Angle: 0 to 15° *	Tilt Angle: 0 to 20° *	19 mm
Max Weight Capacity	2 Microplates 2 Modular Blocks	10 lbs**	5 lbs**	ISHD16HDG 35 lb ISHD23HDG 50 lb ISHD23CDG 50 lb
Audible Alarm	•	•	—	•
Load Sensor	—	—	—	•
Drive System	Triple Eccentric	Cable	Cable	Triple Eccentric
Motor Type	Brushless DC Motor	Stepper Motor	Stepper Motor	Brushless DC Motor
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting
Restart/Power Out	•	•	—	•
Ramp to Speed	•	•	—	•
Temperature Overshoot Protection	—	—	—	•
Overload Protection	•	•	—	•
User Calibration (Temperature)	—	—	—	•
User Calibration (Speed)	—	—	—	•
Interface	—	—	—	RS-232 Interface
Overall Dimensions (L x W x H)	16.49 x 10.11 x 10.98"	17 x 11 x 10.5"	17 x 11 x 10.5"	ISHD16HDG 16.0 x 25.5 x 14.0" ISHD23HDG 23.5 x 32.1 x 26.6" ISHD23CDG 23.5 x 41.1 x 26.6"
Included Tray (L x W)	N/A	10 x 7.5"	9.25 x 7.25"	ISHD16HDG 13 x 11" ISHD23HDG 18 x 18" ISHD23CDG 18 x 18"
Platform Options (L x W)	N/A	N/A	N/A	N/A

- Yes ** Maximum speed/tilt angle may vary with heavy or unbalanced loads.
- ** Centered on tray.

INCUBATING COOLING THERMAL SHAKERS

Industry Leading Thermal Shaker with Exceptional Heating/Cooling Performance with High Speed Shaking

Display

4.3 inch (10.9 cm) color touchscreen Liquid Crystal Display (LCD) which can be programmed in six languages

Communication

USB port provides greater flexibility in data collection and transfer

Construction

Valox cool touch housing, removable plastic rack, cover and screwdriver for block removal (included)

Design Features

Hot top indicator, audible alarm, maximum temperature limiting function, temperature priority function, pulse/quick mix mode, temperature calibration mode, temperature ramp rate function

Operation

Detachable 3-wire cord and plug (included), unit requires a block - compatible with Eppendorf Thermomixer® R blocks



Best in class temperature performance. Enhanced electronics and software allow for fast and accurate temperature control you can trust. Cooling models reach temperatures down to 17°C below ambient.

Intuitive touchscreen for simple operation and programming. Set the functions and the comprehensive help screens in one of six languages to guide the user through the operation of the unit.

Easily create programs for repeat applications. Storage for five separate, 5-step programs. The USB port allows the transfer of test data to a flash drive for data logging and program storage.

Model	Blocks Included	Temp. Range	Temperature accuracy (±)	Speed Range	Speed Accuracy	Timer	Cooling rate	Heating Rate (/min)	Item Number	List Price (USD)
ISTHBLCTSN	Blocks sold separately	17°C below Ambient – 100°C	+/- 0.5°C between 20°C and 45°C; +/-2°C below 20°C and 45°C	300 rpm – 3,000 rpm	±2%	1 minute – 99 hours, 59 minutes	Above ambient 2-3°C/min	5°C/min	30573841	3,948
ISTHBLHTSN	Blocks sold separately	Ambient +4°C – 100°C	+/- 0.5°C between 20°C and 45°C; +/-2°C below 20°C and 45°C	300 rpm – 3,000 rpm	±2%	1 minute – 99 hours, 59 minutes		5°C/min	30573847	3,050
ISTHBLCTS	24 X 1.5 mL tube block, rack and cover	17°C below Ambient – 100°C	+/- 0.5°C between 20°C and 45°C; +/-2°C below 20°C and 45°C	300 rpm – 3,000 rpm	±2%	1 second – 99 hours, 59 minutes	Above ambient 2-3°C/min	5°C/min	30391996	4,381
ISTHBLHTS	24 X 1.5 mL tube block, rack and cover	Ambient +4°C – 100°C	+/- 0.5°C between 20°C and 45°C; +/-2°C below 20°C and 45°C	300 rpm – 3,000 rpm	±2%	1 second – 99 hours, 59 minutes		5°C/min	30392003	3,293

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Microplate Thermal Block	30400126	1,572	Block For 9 X 5mL Eppendorf Tubes	30400134	1,195
384 Well PCR Plate Thermal Block	30400127	1,572	Block For 9 X 15 mL Conical Tubes	30400135	1,195
0.2 mL PCR Plate/Tube Thermal Block	30400128	1,572	Block For 4 X 50 mL Conical Tubes	30400136	1,195
Block For 30 X 0.5 mL Tubes	30400129	1,195	Rack For 30 X 0.5 mL Tube Block	30400250	64
Block For 24 X 1.5 mL Tubes	30400130	1,195	Rack For 24X1.5 / 24X2.0 mL Tube Blocks	30400251	64
Block For 24 X 2.0 mL Tubes	30400131	1,195	Cover For 0.5mL/1.5mL/2.0mL Tube Blocks	30400252	43

INCUBATING LIGHT DUTY ORBITAL SHAKERS

Save Bench Space with Combined Incubating and Shaking Features

Display

Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously

Construction

Cast aluminum housing with polycarbonate lid, brushless DC motor

Design Features

Spill-resistant design, overload protection, caution hot indicator

Operation

Detachable 3-wire cord and plug (included)



Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready-to-use tray to customize with over 10 easy-to-install accessories.

When precision is required, achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Microplate shaker is designed to hold up to 4 microplates or deepwell plates, or easily install 2 microtube racks. Two options - opaque lid for light sensitive samples and clear lid for viewing samples.

Model	Temp. Range	Temp Uniformity	Speed Accuracy	Timer	Maximum Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
ISLD04HDG	Ambient +5°C – 65°C	± 0.5°C at 37°C	±2%	1 second – 160 hours	3.6 kg	11 in x 7.75 in (27.9 cm x 19.7 cm)	30391924	4,104
ISLDMPHDGL	Ambient +5°C – 65°C	± 0.5°C at 37°C	±2%	1 second – 160 hours	4 Microplates or 2 Micro-tube Racks	11 in x 7.75 in (27.9 cm x 19.7 cm)	30391931	3,758
ISLDMPHDG	Ambient +5°C – 65°C	± 0.5°C at 37°C	±2%	1 second – 160 hours	4 Microplates or 2 Micro-tube Racks	11 in x 7.75 in (27.9 cm x 19.7 cm)	30391938	3,758

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Flask Clamp, 10 mL	30400084	56	Flask Clamp PVC 250mL	30400100	65
Flask Clamp, 25 mL	30400085	56	Micro Tube Rack	30400114	239
Flask Clamp, 50 mL	30400086	59	Test Tube Rack 10-13 mm Diameter	30400115	263
Flask Clamp, 125 mL	30400087	59	Test Tube Rack 14-16 mm Diameter	30400116	263
Flask Clamp, 250 mL	30400088	59	Test Tube Rack For 15 mL Tubes	30400119	272
Flask Clamp PVC 125mL	30400099	64	Test Tube Rack For 50 mL Tubes	30400120	272

INCUBATING COOLING ORBITAL SHAKERS

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Display

Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously

Construction

Cast aluminum housing with polycarbonate lid, brushless DC motor

Design Features

Spill-resistant design, overload protection, caution hot indicator

Operation

Detachable 3-wire cord and plug (included)



Designed to provide flexibility in your applications, these shakers are microplate ready - no accessories required, and can easily accommodate modular blocks with the included block adapter.

When precision is required, achieve temperature accuracy with the unique temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Innovative temperature system allows for fast, accurate and uniform temperatures you can trust. The unique Peltier design with direct plate-to-sample contact offers precise heating and cooling.

Model	Temp. Range	Temp Uniformity	Speed Range - Microplates	Speed Range - Modular Blocks	Speed Accuracy	Timer	Maximum Weight Capacity	Item Number	List Price (USD)
ISICMBCDG	10°C below Ambient – 65°C	± 0.5°C at 37°C	100 to 1200 rpm	100 to 600 rpm	±2%	1 second – 160 hours	2 Microplates or 2 Modular Blocks	30391945	6,245

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Module Block 10 mm Test Tube	30400151	207	Module Block For Vials 17 mm	30400184	207
Module Block 12/13 mm 20 Hole	30400152	207	Module Block For Vials 19 mm	30400185	207
Module Block Combination	30400156	207	Module Block For Vials 21 mm	30400186	207
Module Block 0.5 mL Microtaper	30400157	207	Module Block For Vials 23 mm	30400187	207
Module Block 6 mm Test Tube	30400158	207	Module Block For Vials 25 mm	30400188	207
Module Block 1.5 mL Microtaper	30400159	207	Module Block For Vials 28 mm	30400189	207
Module Block 50mL Conical Centrifuge	30400168	207	Module Block For Vials 16 mm	30400190	207
Module Block 15 mL Conical Centrifuge	30400172	204	Module Block, 2.0 mL Tube	30400191	207
Module Block For Vials 12 mm	30400182	207	Module Block Combo, 50 mL, 15 mL, 1.5 mL	30400193	207
Module Block For Vials 15 mm	30400183	207	Module Block Combo - Micro Tube	30400194	207

INCUBATING HEAVY DUTY ORBITAL SHAKERS

Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

Display

Independent LED displays for temperature, speed and time

Communication

RS232

Construction

Aluminum and Cyclopy

Design Features

Temperature calibration feature, overload protection, overshoot protection (temperature), load sensor, PID temperature controller, Triple Eccentric Drive system



The exclusive Opti-Flow Forced Ventilation System utilizes twin induction or a single large fan. Air is deflected around & not directly on samples, creating a circular flow of air ensuring uniformity.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The Triple Eccentric Drive provides consistent shaking motion throughout the entire speed range.

The chambers for the ISHD23HDG and ISHD23CDG units are large enough to hold 2 x 6 L Erlenmeyer flasks with optional clamps and platform.

Model	Capacity	Speed Range	Speed Accuracy	Temp. Range	Temp Uniformity	Timer	Item Number	List Price (USD)	
ISHD16HDG	35 lb (16kg)@ 75rpm, 5 lb (2.3kg)@ 500 rpm	15 rpm - 500 rpm	Above 100rpm +/- 1%, Below 100rpm /- 1 rpm	Ambient +5°C – 65°C	± 0.5°C at 37°C	1 second – 160 hours	30573769	4,791	
ISHD23HDG	50 lb (22.7kg) @ 125 rpm, 10 lb (4.53kg) @ 500 rpm	15 rpm - 500 rpm	Above 100rpm +/- 1%, Below 100rpm /- 1 rpm	Ambient +5°C – 65°C	± 0.5°C at 37°C	1 second – 160 hours	30573774	8,884	
ISHD23CDG	50 lb (22.7kg) @ 125 rpm, 10 lb (4.53kg) @ 500 rpm	15 rpm - 500 rpm	Above 100rpm +/- 1%, Below 100rpm /- 1 rpm	15°C below Ambient – 65°C	± 0.5°C at 37°C	1 second – 160 hours	30573779	12,156	
Accessories			Item Number	List Price (USD)	Accessories			Item Number	List Price (USD)
Universal Platform, 28 X 33 cm, S/S			30400052	309	Flask Clamp PVC 500mL			30400101	71
Universal Platform, 46 X 46 cm, S/S I-IR			30400055	516	Flask Clamp PVC 1000mL			30400102	82
Rubber Mat, 28 x 33 cm			30400060	88	Flask Clamp PVC 2000mL			30400103	134
Flask Clamp, 10 mL			30400084	56	Clamp Microplate Stainless Steel			30400104	89
Flask Clamp, 25 mL			30400085	56	Test Tube Rack 13 mm Pivoting			30400105	458
Flask Clamp, 50 mL			30400086	59	Test Tube Rack 16 mm Pivoting			30400106	458
Flask Clamp, 125 mL			30400087	59	Test Tube Rack 20 mm Pivoting			30400107	458
Flask Clamp, 250 mL			30400088	59	Test Tube Rack 25 mm Pivoting			30400108	458
Flask Clamp, 500 mL			30400089	65	Test Tube Rack 30 mm Pivoting			30400109	458
1 Liter Erlenmeyer Flask Clamp			30400090	85	Test Tube Rack 10-14 mm Stationary			30400110	516
2 Liter Erlenmeyer Flask Clamp			30400091	133	Test Tube Rack 16-20 mm Stationary			30400111	516
2.8 Liter Erlenmeyer Flask Clamp			30400092	175	Test Tube Rack 21-25 mm Stationary			30400112	516
3 Liter Erlenmeyer Flask Clamp			30400093	237	Test Tube Rack 50 mL Tubes Stationary			30400113	540
4 Liter Erlenmeyer Flask Clamp			30400094	218	Test Tube Rack 10-13 mm Diameter			30400115	263
5 Liter Erlenmeyer Flask Clamp			30400095	264	Test Tube Rack 14-16 mm Diameter			30400116	263
6 Liter Erlenmeyer Flask Clamp			30400096	258	Test Tube Rack 18-20 mm Diameter			30400117	263
500 mL Media Bottle Clamp			30400097	165	Test Tube Rack 22-25 mm Diameter			30400118	263
1000 mL Media Bottle Clamp			30400098	180	Test Tube Rack For 15 mL Tubes			30400119	272
Flask Clamp PVC 125mL			30400099	64	Test Tube Rack For 50 mL Tubes			30400120	272
Flask Clamp PVC 250mL			30400100	65					



INCUBATING ROCKING & WAVING SHAKERS

Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers

Display

Easy-to-read, independent LED displays for temperature, speed/tilt angle and time allow the operator to view all settings simultaneously

Construction

Cast aluminum housing with polycarbonate lid

Design Features

Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models, caution hot indicator

Operation

Detachable 3-wire cord and plug (included)



Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.

Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Model	Temp. Range	Temp Uniformity	Speed Accuracy	Tilt Angle	Timer	Max. Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
ISWV02HDG	Ambient +5°C – 65°C	± 0.5°C at 37°C	±1 rpm	Waving, 0 – 20°	1 second – 160 hours	2.3 kg	9.25 in × 7.25 in (23.5 cm × 18.4 cm)	30391987	4,213
ISRK04HDG	Ambient +5°C – 65°C	± 0.5°C at 37°C	±1 rpm	Rocking, 0 – 15°	1 second – 160 hours	4.5 kg	10 in × 7.75 in (25.4 cm × 19.7 cm)	30391980	4,304

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

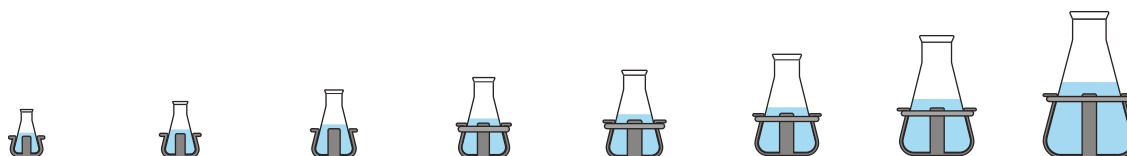
Stainless Steel Flask Clamps

Designed to hold Erlenmeyer flasks from 10 mL to 6 L. Constructed of type 302 and 304 stainless steel. Includes hardware for easy attachment to platforms. Flask clamps 50 mL and higher are supplied with a spring to hold the flask in place. The 2.8 L clamp is designed to hold a Fernbach flask. Media bottle clamps feature the same details as flask clamps.

Media Bottle Flask Clamps



Erlenmeyer Flask Clamps



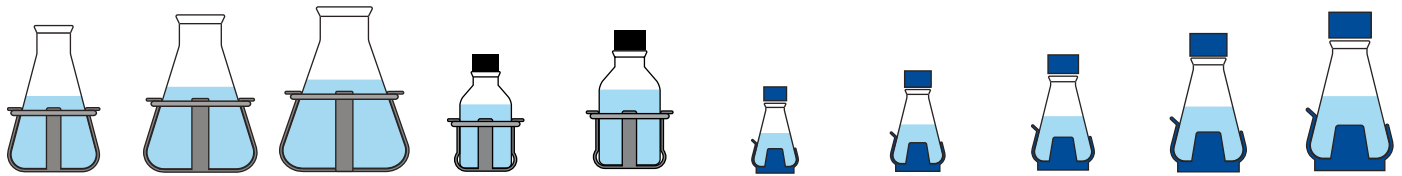
	10 mL Erlenmeyer Flask Clamp	25 mL Erlenmeyer Flask Clamp	50 mL Erlenmeyer Flask Clamp	125 mL Erlenmeyer Flask Clamp	250 mL Erlenmeyer Flask Clamp	500 mL Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Item No.	30400084	30400085	30400086	30400087	30400088	30400089	30400090	30400091
List Price (USD)	38	38	40	40	40	43	58	91
Tray or Platform	Number of Flask Clamps per Tray or Platform							
11.75 × 8.75" (29.9 × 22.2 cm) Open Air Digital 4 kg Shakers	35	20	15	12	6	4	N/A	N/A
11 × 7.75" (27.9 × 19.7 cm) Incubating 4 kg Shakers	35	20	12	8	5	N/A	N/A	N/A
11 × 13" (27.9 × 33 cm) Analog/Digital 16 kg Shakers	60	25	13	10	9	7	4	N/A
Digital Reciprocating Shakers	60	25	13	10	9	7	4	N/A
13 × 13" (33 × 33 cm) Analog/Digital 16 kg Shakers	60	30	15	12	12	8	4	3
Digital Reciprocating Shakers	60	30	15	12	12	8	4	3
18 × 18" (45.7 × 45.7 cm) Analog/Digital 16 kg Shakers	113	64	32	20	20	13	8	5
Digital Reciprocating Shakers	113	64	32	20	20	13	8	5
18 × 24" (45.7 × 61 cm) Analog/Digital 16 kg Shakers	158	88	44	28	28	20	12	6
Digital Reciprocating Shakers	158	88	44	28	28	20	12	6
Analog/Digital 23 kg Shakers	158	88	44	28	28	20	12	6
18 × 30" (45.7 × 76.2 cm) Analog/Digital 23 kg Shakers	203	112	56	36	36	26	15	8
24 × 24" (61 × 61 cm) Digital 45 kg Shakers	221	121	61	41	41	25	16	9
24 × 36" (61 × 91.4 cm) Digital 63 kg Shakers	336	160	94	61	64	40	24	14

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

PVC Flask Clamps

Constructed of one piece, molded PVC. Autoclavable. Will not scratch or mark flask like other clamps. Includes hardware for easy attachment to universal platforms. The attachment and removal of flasks is quick and easy. Ideal for polycarbonate flasks.



2.8 L & 3 L Fernbach Flask Clamp	4 L Erlenmeyer Flask Clamp	5 L & 6 L Erlenmeyer Flask Clamp	500 mL Media Bottle Clamp	1 L Media Bottle Clamp	125 mL Erlenmeyer Flask Clamp	250 mL Erlenmeyer Flask Clamp	500 mL Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	PVC	PVC	PVC	PVC	PVC
2.8L-30400092 3L-30400093	30400094	5 L-30400095 6 L-30400096	30400097	30400098	30400099	30400100	30400101	30400102	30400103
121 / 164	151	183 / 179	113	122	42	43	49	55	92
Number of Flask Clamps per Tray or Platform									
N/A	N/A	N/A	3	N/A	12	6	4	N/A	N/A
N/A	N/A	N/A	N/A	N/A	8	4	N/A	N/A	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
1	1	1	6	5	12	10	6	4	3
1	1	1	6	5	12	10	6	4	3
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	6	4	28	18	36	33	20	14	8
5	5	5	25	18	41	35	24	13	9
7	9	7	40	30	61	55	38	22	13

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Test Tube Racks

Half Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

Dimensions:

5 L × 7 W × 4" H (12.7 × 17.8 × 10.2 cm) / Micro-Tube Rack: 1.7" H (4.3 cm).

Test Tube Racks
Half-Size, Stationary



	1.5 to 2 mL Micro-Tube Rack Half Size, Stationary	10 to 13 mm Test Tube Rack Half Size, Stationary	14 to 16 mm Test Tube Rack Half Size, Stationary	18 to 20 mm Test Tube Rack Half Size, Stationary	22 to 25 mm Test Tube Rack Half Size, Stationary	15 mL Centrifuge Tube Rack Half Size, Stationary	50 mL Centrifuge Tube Rack Half Size, Stationary
Tube Capacity	70	63	48	35	24	35	12
Item No.	30400114	30400115	30400116	30400117	30400118	30400119	30400120
List Price (USD)	165	182	182	182	182	189	189
Tray or Platform	Number of Test Tube Racks per Tray or Platform						
11.75 × 8.75" (29.9 × 22.2 cm)							
Digital Open Air 4 kg Shakers	2	2	2	2	2	2	2
11 × 7.75" (27.9 × 19.7 cm)							
Incubating 4 kg Shakers	2	1	1	N/A	N/A	1	1
Digital Open Air 4 kg Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
Incubating Microplate Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
11 × 13" (27.9 × 33 cm)							
Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
13 × 13" (33 cm × 33 cm)							
Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
18 × 18" (45.7 × 45.7 cm)							
Analog/Digital 16 kg Shaker	4	4	4	4	4	4	4
Digital Reciprocating Shakers	4	4	4	4	4	4	4
18 × 24" (45.7 × 61 cm)							
Analog/Digital 16 kg Shakers	6	6	6	6	6	6	6
Digital Reciprocating Shakers	6	6	6	6	6	6	6
Analog/Digital 23 kg Shakers	6	6	6	6	6	6	6
18 × 30" (45.7 × 76.2 cm)							
Analog/Digital 23 kg Shakers	8	8	8	8	8	8	8
24 × 24" (61 × 61 cm)							
Digital 45 kg Shakers	8	8	8	8	8	8	8
24 × 36" (61 × 91.4 cm)							
Digital 63 kg Shakers	7	7	7	7	7	7	7

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Test Tube Racks

Full Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

Dimensions:

3.75 L x 16.5 W x 4" H (9.5 x 41.9 x 10.2 cm)

Full Size, Pivoting

Has adjustable angle, custom tilt. Stainless steel holder includes removable plastic rack. Rack is easily removed to transport from work area to shaker.

Inside pivoting rack dimensions:

5.1 x 10.8 x 3.9" (12.9 x 27.4 x 9.9 cm)

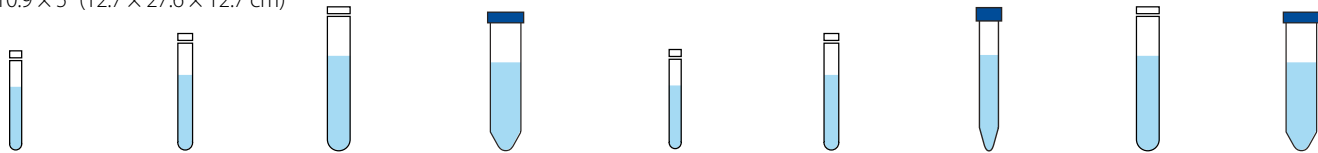
Outside stationary rack dimensions:

5.0 x 10.9 x 5" (12.7 x 27.6 x 12.7 cm)

Test Tube Racks
Full-Size, Stationary



Test Tube Racks
Full-Size, Pivoting



10 to 14 mm Test Tube Rack Full Size, Stationary	16 to 20 mm Test Tube Rack Full Size, Stationary	21 to 25 mm Test Tube Rack Full Size, Stationary	50 mL Centrifuge Tube Rack Full Size, Stationary	13 mm Test Tube Rack Full Size, Pivoting	16 mm Test Tube Rack Full Size, Pivoting	20 mm Test Tube Rack Full Size, Pivoting	25 mm Tube Rack Full Size, Pivoting	30 mm Tube Rack Full Size, Pivoting
48	33	21	17	90	60	40	24	21
30400110	30400111	30400112	30400113	30400105	30400106	30400107	30400108	30400109
359	359	359	376	320	320	320	320	320
Number of Test Tube Racks per Tray or Platform								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
6	6	6	6	4	4	4	4	4
7	7	7	7	4	4	4	4	4
5	5	5	5	6	6	6	6	6

MINI VORTEX MIXERS

Choose the Perfect Vortex Mixer From Four Durable Models for Everyday Mixing

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Construction

Cup head and 3-inch accessory platform for beakers, flasks, test tubes etc. (included with all models), stainless steel microtube holder for 12 tubes (pulsing models)

Design Features

Microprocessor-control to maintain set speed for consistent mixing action (digital models), 230V models have a maximum speed of 2500 rpm

Operation

Detachable 3-wire cord and plug (included)



Touch mode operation activates mixing when depressing the cup head or continuous mode for use with accessory attachments. Sturdy, rugged design ensures the unit stays in place while in use.

Robust digital and non-digital Vortex Mixers offer effective speed control from low RPM start-up for gentle shaking to high-speed mixing for vigorous vortexing of samples.

The Fixed Speed Vortex Mixer is an economical choice for vigorous mixing of samples at high speed. To ease repetitive sample processing, this unit provides simple, effective full-speed mixing.

Model	Type	Speed Range	Timer	Orbit	Capacity	Duty Rating	Item Number	List Price (USD)
VXMNAL	Analog	300 rpm – 3200 rpm	-	0.2 in (4.9 mm)	0.5 kg	Intermittent	30392115	412
VXMNDG	Digital	500 rpm – 3000 rpm	1 second - 9999 minutes	0.2 in (4.9 mm)	0.5 kg	Intermittent	30392122	529
VXMNFS	Fixed Speed	3200 rpm	-	0.2 in (4.9 mm)	0.5 kg	Intermittent	30392108	362
VXMNPS	Pulsing	500 rpm – 3000 rpm	1 second - 9999 minutes	0.1 in (2.5 mm)	0.5 kg	Intermittent	30392129	652

Accessories	Item Number	List Price (USD)
8 cm Head with Rubber Cover	30400196	84
Tube Holder Kit with Retainer	30400197	301
Micro Tube and Well Plate Holder Kit	30400198	180
Micro Well Plate Kit with Retainer	30400199	180
Microtube Kit with Retainer	30400200	180
Foam Insert Variety Pack	30400201	89
Single Tube Holder	30400202	258
Single Tube Holder Adapter Vortex Genie	30400203	133
0.5 mL Micro-Tube Holder	30400204	112
1.5-2.0 mL Micro-Tube Holder	30400205	112
1.5-2.0 mL Stainless Steel Tube Holder	30400206	408
Ampule Tube Holder - Small (15-17mm)	30400207	189

Accessories	Item Number	List Price (USD)
Ampule Tube Holder - Large (10-17mm)	30400208	268
Insert Retainer	30400227	202
Vessel Harness, Pack of 2	30400228	20
Holder For 9-13 mm Tubes, Pack of 2	30400229	50
Holder For 14-19 mm Tubes, Pack of 2	30400230	50
Holder For 20-25 mm Tubes, Pack of 2	30400231	50
Micro-Tube Holder, Pack of 2	30400232	104
Micro-Well Plate Holder, Pack of 2	30400233	104
Flat Foam Insert, Pack of 2	30400234	47
Cup Head	30400235	63
7.6 cm Head (3")	30400236	63
7.6 cm Rubber Head Cover (3")	30400237	63

HEAVY-DUTY VORTEX MIXERS

Increase Productivity with Continuous-Duty Vortexing of Multiple Samples

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Construction

Cycloxy, Touch/Standby/On rocker switch (both models)

Design Features

Universal holder, foam insert for (38) 1.5 to 2 ml microtubes, universal cover and cup head (included)

Operation

Detachable 3-wire cord and plug (included)



Safe to mix at high speeds - the unique locking design of the mixer accessories allows the mixer to safely operate throughout the entire speed range.

For the most demanding applications, these mixers utilize a high quality German-manufactured motor, allowing for continuous duty operation and increased load capacities up to 1.1 kg.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of difficult samples.

Model	Control	Speed Range	Timer	Orbit	Capacity	Duty Rating	Item Number	List Price (USD)
VXHDAL	Analog	On Mode, 300 rpm – 2500 rpm; Touch Mode, 300 rpm – 3500 rpm	-	0.2 in (4.9 mm)	1.1 kg	Continuous	30392148	1,378
VXHDDG	Digital	On Mode, 300 rpm – 2500 rpm; Touch Mode, 300 rpm – 3500 rpm	1 second - 9999 minutes	0.2 in (4.9 mm)	1.1 kg	Continuous	30392146	1,604

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Foam Insert Blank	30400209	64	Small Vessel Holder 125 & 250 mL Flasks	30400218	74
Cup Head, VXHD and VXMP Vortex Mixers	30400210	63	Foam Insert For (34) 12-13 mm Tubes	30400220	64
Large Vessel Holder For 500 ml/1 L Flask	30400211	74	Foam Insert For (20) 15-18 mm Tubes	30400221	64
4 Place Stackable Microplate Holder	30400212	188	Foam Insert For (18) 19-21 mm Tubes	30400222	64
Double Microplate Holder	30400213	101	Foam Insert For (13) 22-25 mm Tubes	30400223	64
4 Place Microplate Holder	30400214	203	Foam Insert For (4) 26-29 mm Tubes	30400224	64
Single Microplate Holder	30400215	88	Cover For Universal Holder	30400225	34
Foam Insert For (52) 0.5 mL Microtubes	30400216	64	Universal Holder	30400226	91
Foam Insert (38) 1.5-2.0 mL Microtubes	30400217	64			

MICROPLATE VORTEX MIXERS

The Ideal Solution for Dependable Vortex Mixing of Microplates

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Construction

Cyclopy

Design Features

Microplate adapter and cup head (included)

Operation

Detachable 3-wire cord and plug (included)



Safe to mix at high speeds - the innovative locking design of the microplate accessories allows these mixers to safely operate throughout the entire speed range.

These mixers utilize a high quality German-manufactured motor allowing for reliable, continuous-duty operation at any speed.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of samples.

Model	Control	Speed Range	Timer	Orbit	Capacity	Duty Rating	Item Number	List Price (USD)
VXMPAL	Analog	On Mode, 300 rpm – 2500 rpm; Touch Mode, 300 rpm – 3500 rpm	-	0.1 in (3.5 mm)	2 Microplates	Continuous	30392162	646
VXMPDG	Digital	On Mode, 300 rpm – 2500 rpm; Touch Mode, 300 rpm – 3500 rpm	1 second - 9999 minutes	0.1 in (3.5 mm)	2 Microplates	Continuous	30392160	749

Accessories	Item Number	List Price (USD)
Cup Head, VXHD and VXMP Vortex Mixers	30400210	63
Double Microplate Holder	30400213	101

Accessories	Item Number	List Price (USD)
Single Microplate Holder	30400215	88

MULTI-TUBE VORTEX MIXERS

Powerful Hands-Free Vortex Mixer for Efficient High-Throughput Mixing

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models)

Construction

Stainless steel foam rack for (50) 12 mm diameter tubes (included), interchangeable foam racks for vortexing tubes from 10 - 29 mm in diameter

Operation

Detachable 3-wire cord and plug (included)



Easily process up to 50 samples at one time - the Multi-Tube Vortex Mixer can be customized for your application with six different tube racks and a post- extension kit.

The Multi-Tube Vortex Mixers feature either an easy-to-clean one-piece stainless steel housing that is perfect for clean rooms, or a painted steel version for a more economical option.

For challenging samples, enhance vortex action & create a more vigorous mix with the programmable pulse mode on the digital models. Adjust the pulse-on/pulse-off time interval to customize operation.

Model	Speed Range	Timer	Orbit	Maximum Weight Capacity	Tray Dimensions	Item Number	List Price (USD)
VXMTAL	1200 rpm – 2400 rpm	-	0.1 in (3.6 mm)	4.5 kg	7.25 in x 12.25 in (18.4 cm x 31.1 cm)	30392164	3,948
VXMTDG	500 rpm – 2500 rpm	1 second - 9999 minutes	0.1 in (3.6 mm)	4.5 kg	7.25 in x 12.25 in (18.4 cm x 31.1 cm)	30392171	4,623
VXMTALB	1200 rpm – 2400 rpm	-	0.1 in (3.6 mm)	4.5 kg	7.25 in x 12.25 in (184 mm x 311 mm)	30573831	3,363
VXMTDGB	500 rpm – 2500 rpm	1 second - 9999 minutes	0.1 in (3.6 mm)	4.5 kg	7.25 in x 12.25 in (184 mm x 311 mm)	30573836	3,931

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
10 mm Tube Rack (Gray)	30400238	56	50 mL Tube Rack (Red)	30400242	70
12 mm Tube Rack (Blue)	30400239	55	25 mm Tube Rack (White)	30400243	70
13 mm Tube Rack (Yellow)	30400240	55	Post Extension Kit	30400244	274
16 mm Tube Rack (Green)	30400241	70	Tray Pad Set - Top And Bottom	30400245	81

I BLOCK DRY BLOCK HEATERS

Versatile block heaters designed for everyday use with accessories for every application

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint



Designed for reliable everyday use in the lab. Digital and non-digital block heaters offer exceptional temperature uniformity with outstanding temperature stability.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Temp. Range	Temp Stability	Uniformity Within the Block	Heat Up Time	Item Number	List Price (USD)
HB1AL	High 75°C – 150°C; Low Ambient + 5°C – 100°C	± 1°C	± 0.1°C at 37°C	16 min	30392045	440
HB1DG	Ambient + 5°C – 120°C	± 0.1°C	± 0.1°C at 37°C	16 min	30392059	584

Accessories	Item Number	List Price (USD)
Module Block 10 mm Test Tube	30400151	207
Module Block 12/13 mm 20 Hole	30400152	207
Module Block 15/16 mm 12 Hole	30400153	207
Module Block 20 mm 8 Well Test Tube	30400154	207
Module Block 25 mm Test Tube 6 Hole	30400155	207
Module Block Combination	30400156	207
Module Block 0.5 mL Microtaper	30400157	207
Module Block 6 mm Test Tube	30400158	207
Module Block 1.5 mL Microtaper	30400159	207
Module Block Solid	30400160	207
Module Block Cuvette - 12 Cuvet	30400161	247
Module Block 11.5/1.5 mL Microcentrifuge	30400162	207
Module Block 250 Microliter/6 mm	30400163	207
Module Block 12/13 mm 16 Holes	30400165	207
Module Block 4 X 35 mm Test Tube	30400167	207
Module Block 50mL Conical Centrifuge	30400168	207
Module Block 0.2 mL Micro 80 Hole	30400169	228
Module Block 0.2 mL Micro 64 Hole	30400170	228
Module Block 15 mL Conical Centrifuge	30400172	204
Sand Bath, 1 Block Unit	30400173	441

Accessories	Item Number	List Price (USD)
Sand, 0.5 kg (1 Lb) Bag	30400177	128
Stainless Steel Shot, 0.5 kg (1 Lb)	30400178	154
Cover Low-Temperature 2 Block	30400179	186
Cover Low-Temperature 4 Block	30400180	182
Cover Low-Temperature 6 Block	30400181	197
Module Block For Vials 12 mm	30400182	207
Module Block For Vials 15 mm	30400183	207
Module Block For Vials 17 mm	30400184	207
Module Block For Vials 19 mm	30400185	207
Module Block For Vials 21 mm	30400186	207
Module Block For Vials 23 mm	30400187	207
Module Block For Vials 25 mm	30400188	207
Module Block For Vials 28 mm	30400189	207
Module Block For Vials 16 mm	30400190	207
Module Block, 2.0 mL Tube	30400191	207
Module Block, 2.0 mL Corning Tube	30400192	207
Module Block Combo, 50 mL, 15 mL, 1.5 mL	30400193	207
Module Block Combo - Micro Tube	30400194	207
Module Block 12 Holes 17-18 mm	30400195	207
Stainless Steel Probe Kit	30400246	468



2 BLOCK DRY BLOCK HEATERS

Versatile block heaters designed for everyday use with accessories for every application

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint



Three models to customize your application. All models offer exceptional temperature uniformity with outstanding temperature stability.

Avoid contamination to ensure repeatable, reliable results. The Heatblock with Heated Lid features a second heater in the lid to minimize condensation to maintain your sample integrity.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Model	Temp. Range	Temp Stability	Uniformity Within the Block	Uniformity Across Similar Blocks	Heat Up Time	Item Number	List Price (USD)
HB2AL	High 75°C – 150°C; Low Ambient + 5°C – 100°C	± 1.5°C	± 0.1°C at 37°C	± 0.1°C at 37°C	16 min	30392052	571
HB2DG	Ambient + 5°C – 120°C	± 0.1°C	± 0.1°C at 37°C	± 0.1°C at 37°C	16 min	30392080	713
HB2DGH	Ambient + 5°C – 100°C	± 0.1°C	± 0.1°C at 37°C	± 0.1°C at 37°C	16 min	30392101	1,499

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Module Block 10 mm Test Tube	30400151	207	Module Block 0.2 mL Micro 64 Hole	30400170	228
Module Block 12/13 mm 20 Hole	30400152	207	Module Block 0.2mL96Hole DoubleBloc	30400171	459
Module Block 15/16 mm 12 Hole	30400153	207	Module Block 15 mL Conical Centrifuge	30400172	204
Module Block 20 mm 8 Well Test Tube	30400154	207	Sand Bath, 2 Block Unit	30400174	458
Module Block 25 mm Test Tube 6 Hole	30400155	207	Sand, 0.5 kg (1 Lb) Bag	30400177	128
Module Block Combination	30400156	207	Stainless Steel Shot, 0.5 kg (1 Lb)	30400178	154
Module Block 0.5 mL Microtaper	30400157	207	Cover Low-Temperature 2 Block	30400179	186
Module Block 6 mm Test Tube	30400158	207	Cover Low-Temperature 4 Block	30400180	182
Module Block 1.5 mL Microtaper	30400159	207	Cover Low-Temperature 6 Block	30400181	197
Module Block Solid	30400160	207	Module Block For Vials 12 mm	30400182	207
Module Block Cuvette - 12 Cuvet	30400161	247	Module Block For Vials 15 mm	30400183	207
Module Block 11.5/1.5 mL Microcentrifuge	30400162	207	Module Block For Vials 17 mm	30400184	207
Module Block 250 Microliter/6 mm	30400163	207	Module Block For Vials 19 mm	30400185	207
Module Block Titer Plate	30400164	419	Module Block For Vials 21 mm	30400186	207
Module Block 12/13 mm 16 Holes	30400165	207	Module Block For Vials 23 mm	30400187	207
Module Block Solid Double	30400166	301	Module Block For Vials 25 mm	30400188	207
Module Block 4 X 35 mm Test Tube	30400167	207	Module Block For Vials 28 mm	30400189	207
Module Block 50mL Conical Centrifuge	30400168	207	Module Block For Vials 16 mm	30400190	207
Module Block 0.2 mL Micro 80 Hole	30400169	228	Module Block, 2.0 mL Tube	30400191	207

Accessories continued on next page



2 BLOCK DRY BLOCK HEATERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Module Block, 2.0 mL Corning Tube	30400192	207
Module Block Combo, 50 mL, 15 mL, 1.5 mL	30400193	207
Module Block Combo - Micro Tube	30400194	207

Accessories	Item Number	List Price (USD)
Module Block 12 Holes 17-18 mm	30400195	207
Stainless Steel Probe Kit	30400246	468

4 BLOCK DRY BLOCK HEATERS

Versatile and dependable block heaters deliver precise, reliable results

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint



Designed for flexibility with your applications. The four-block capacity allows you to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Temp. Range	Temp Stability	Uniformity Within the Block	Uniformity Across Similar Blocks	Heat Up Time	Item Number	List Price (USD)
HB4AL	High 75°C – 150°C; Low Ambient + 5°C – 100°C	± 2°C	± 0.1°C at 37°C	± 0.2°C at 37°C	23 min	30392066	840
HB4DG	Ambient + 5°C – 120°C	± 0.1°C	± 0.1°C at 37°C	± 0.2°C at 37°C	23 min	30392087	910

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Module Block 10 mm Test Tube	30400151	207	Module Block 0.2mL96Hole DoubleBloc	30400171	459
Module Block 12/13 mm 20 Hole	30400152	207	Module Block 15 mL Conical Centrifuge	30400172	204
Module Block 15/16 mm 12 Hole	30400153	207	Sand Bath, 4 Block Unit	30400175	491
Module Block 20 mm 8 Well Test Tube	30400154	207	Sand, 0.5 kg (1 Lb) Bag	30400177	128
Module Block 25 mm Test Tube 6 Hole	30400155	207	Stainless Steel Shot, 0.5 kg (1 Lb)	30400178	154
Module Block Combination	30400156	207	Cover Low-Temperature 2 Block	30400179	186
Module Block 0.5 mL Microtaper	30400157	207	Cover Low-Temperature 4 Block	30400180	182
Module Block 6 mm Test Tube	30400158	207	Cover Low-Temperature 6 Block	30400181	197
Module Block 1.5 mL Microtaper	30400159	207	Module Block For Vials 12 mm	30400182	207
Module Block Solid	30400160	207	Module Block For Vials 15 mm	30400183	207
Module Block Cuvette - 12 Cuvet	30400161	247	Module Block For Vials 17 mm	30400184	207
Module Block 11.5/1.5 mL Microcentrifuge	30400162	207	Module Block For Vials 19 mm	30400185	207
Module Block 250 Microliter/6 mm	30400163	207	Module Block For Vials 21 mm	30400186	207
Module Block Titer Plate	30400164	419	Module Block For Vials 23 mm	30400187	207
Module Block 12/13 mm 16 Holes	30400165	207	Module Block For Vials 25 mm	30400188	207
Module Block Solid Double	30400166	301	Module Block For Vials 28 mm	30400189	207
Module Block 4 X 35 mm Test Tube	30400167	207	Module Block For Vials 16 mm	30400190	207
Module Block 50mLConical Centrifuge	30400168	207	Module Block, 2.0 mL Tube	30400191	207
Module Block 0.2 mL Micro 80 Hole	30400169	228	Module Block, 2.0 mL Corning Tube	30400192	207
Module Block 0.2 mL Micro 64 Hole	30400170	228	Module Block Combo, 50 mL, 15 mL, 1.5 mL	30400193	207

Accessories continued on next page



4 BLOCK DRY BLOCK HEATERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Module Block Combo - Micro Tube	30400194	207
Module Block 12 Holes 17-18 mm	30400195	207

Accessories	Item Number	List Price (USD)
Stainless Steel Probe Kit	30400246	468

6 BLOCK DRY BLOCK HEATERS

Process more samples with large capacity block heaters that deliver precise, reliable results

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint



Unique design for high throughput applications. The six-block capacity allows you the most flexibility to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Temp. Range	Temp Stability	Uniformity Within the Block	Uniformity Across Similar Blocks	Heat Up Time	Item Number	List Price (USD)
HB6AL	High 75°C – 150°C; Low Ambient + 5°C – 100°C	± 2°C	± 0.1°C at 37°C	± 0.3°C at 37°C	30 min	30392073	1,238
HB6DG	Ambient + 5°C – 120°C	± 2°C	± 0.1°C at 37°C	± 0.3°C at 37°C	30 min	30392094	1,382

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Module Block 10 mm Test Tube	30400151	207	Module Block 0.2mL96Hole DoubleBloc	30400171	459
Module Block 12/13 mm 20 Hole	30400152	207	Module Block 15 mL Conical Centrifuge	30400172	204
Module Block 15/16 mm 12 Hole	30400153	207	Sand Bath, 6 Block Unit	30400176	508
Module Block 20 mm 8 Well Test Tube	30400154	207	Sand, 0.5 kg (1 Lb) Bag	30400177	128
Module Block 25 mm Test Tube 6 Hole	30400155	207	Stainless Steel Shot, 0.5 kg (1 Lb)	30400178	154
Module Block Combination	30400156	207	Cover Low-Temperature 2 Block	30400179	186
Module Block 0.5 mL Microtaper	30400157	207	Cover Low-Temperature 4 Block	30400180	182
Module Block 6 mm Test Tube	30400158	207	Cover Low-Temperature 6 Block	30400181	197
Module Block 1.5 mL Microtaper	30400159	207	Module Block For Vials 12 mm	30400182	207
Module Block Solid	30400160	207	Module Block For Vials 15 mm	30400183	207
Module Block Cuvette - 12 Cuvet	30400161	247	Module Block For Vials 17 mm	30400184	207
Module Block 11.5/1.5 mL Microcentrifuge	30400162	207	Module Block For Vials 19 mm	30400185	207
Module Block 250 Microliter/6 mm	30400163	207	Module Block For Vials 21 mm	30400186	207
Module Block Titer Plate	30400164	419	Module Block For Vials 23 mm	30400187	207
Module Block 12/13 mm 16 Holes	30400165	207	Module Block For Vials 25 mm	30400188	207
Module Block Solid Double	30400166	301	Module Block For Vials 28 mm	30400189	207
Module Block 4 X 35 mm Test Tube	30400167	207	Module Block For Vials 16 mm	30400190	207
Module Block 50mLConical Centrifuge	30400168	207	Module Block, 2.0 mL Tube	30400191	207
Module Block 0.2 mL Micro 80 Hole	30400169	228	Module Block, 2.0 mL Corning Tube	30400192	207
Module Block 0.2 mL Micro 64 Hole	30400170	228	Module Block Combo, 50 mL, 15 mL, 1.5 mL	30400193	207

Accessories continued on next page



6 BLOCK DRY BLOCK HEATERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Module Block Combo - Micro Tube	30400194	207
Module Block 12 Holes 17-18 mm	30400195	207

Accessories	Item Number	List Price (USD)
Stainless Steel Probe Kit	30400246	468

GUARDIAN™ 7000 HOTPLATES & STIRRERS

Durable Digital Hotplate Stirrers with Superior Safety Features and Intelligent Performance

Display

Backlit LCD Display for temperature, speed and time, green indicator lights when unit is heating and stirring, two prominent hot top indicator lights, icons for SmartRate™, SmartHeat™, SmartPresence™, SmartLink™, probe in use, Single Point Calibration

Communication

USB port provides flexibility for programming of repeat applications and enhancing safety with SmartLink™ technology; the long range user detection function operated with the OHAUS Bluetooth dongle accessory (sold separately)

Construction

Probe connection, SmartHousing™ stays cool to the touch and is chemical-resistant, IP21 Ingress Protection, hardened glass front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, easy-to-clean ceramic or aluminum tops

Design Features

Hot top indicator lights, audible alarm, SmartHeat™ temperature limiting function, SafetyHeat™ shuts off heater in the event of malfunction, temperature calibration feature for 5 probe & 5 plate setpoints, temperature priority function, SmartRate™ functions



Operation

Timer, Stirring from 60 to 1600 rpm, temperature range of ambient +5°C to 500°C (ceramic top) or 380°C (aluminum top), power cord (included), 8" (20.3 cm) stainless steel RTD temperature probe, 1.5" (3.8 cm) PTFE coated stir bar, in-use cover

Protect your lab with SmartPresence™ and SmartLink™ technologies. These exclusive features automatically shut off the heater if no one is detected after a user-defined "time out" period has elapsed.

SafetyHeat™ protects the lab – an industry-leading early detection system uses two independent safety controls to monitor the electronics and stop heating before an overtemperature condition occurs.

Precise stirring from 60 to 1600 rpm is made possible by the design of a powerful motor, strong magnet and software controlled ramp rate, ensuring secure magnetic coupling for viscous applications.

Model	Function	Temp. Range	Speed Range	Maximum Stirring Capacity (H ₂ O)	Plate Size	Item Number	List Price (USD)
e-G71HS07C	Heating and Stirring	Ambient +5°C – 500°C	60 rpm ; 1,600 rpm	15 L	7 in x 7 in (178 mm x 178 mm)	30500600	1,097
e-G71HS10C	Heating and Stirring	Ambient +5°C – 500°C	60 rpm ; 1,600 rpm	18 L	10 in x 10 in (254 mm x 254 mm)	30500610	1,528
e-G71HSRDM	Heating and Stirring	Ambient +5°C – 380°C	60 rpm ; 1,600 rpm	20 L	5.3 in (135 mm)	30500620	986

Accessories	Item Number	List Price (USD)
Clamp, Specialty, Rod, CLS-RODS	30392233	59
Clamp, Specialty, Column, CLS-COLMNSS	30392314	104
Clamp, Specialty, Column, CLS-COLMNSM	30392315	106
Clamp, Specialty, Column, CLS-COLMNSL	30392316	108
Clamp, Specialty, Column, CLS-COLMNSX	30392317	108
Clamp, Specialty, Nester, CLS-NESTXS	30392318	141
Ultra Flex Support Kit	30400145	303
Support Rod And Clamp Kit	30400146	222
Spinbar 2.5 cm PTFE	30400147	20
Spinbar 3.8 cm PTFE	30400148	21
Spinbar 7 cm PTFE	30400149	67
Spinbar 10 cm with Pivot Ring PTFE	30400150	123
Wireless Dongle MTICWD-200	30412537	328
Base Plate 135 mm	30500570	361
Handles for Base Plate	30500571	288
Sectional Block 12 mm Vials	30500572	138
Sectional Block 15 mm vials	30500573	138

Accessories	Item Number	List Price (USD)
Sectional Block 17 mm Vials	30500574	138
Sectional Block 21 mm Vials	30500575	138
Sectional Block 28 mm Vials	30500576	138
Sectional Block 12 mm Test Tubes	30500577	279
Sectional Block 16 mm Test Tubes	30500578	279
Sectional Block 20 mm Test Tubes	30500579	279
Sectional Block 25 mm Test Tubes	30500580	279
Uni Block 12 mm Vials	30500581	396
Uni Block 15 mm vials	30500582	396
Uni Block 17 mm Vials	30500583	396
Uni Block 21 mm Vials	30500584	396
Uni Block 28 mm Vials	30500585	396
Uni Block 12 mm Test Tubes	30500586	446
Uni Block 16 mm Test Tubes	30500587	446
Uni Block 20 mm Test Tubes	30500588	446
Uni Block 25 mm Test Tubes	30500589	446
Temperature Probe 20 cm S/S	30500590	279

Accessories continued on next page



GUARDIAN™ 7000 HOTPLATES & STIRRERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Temperature Probe 20 cm PTFE	30500591	311
Temperature Probe 25 cm S/S	30500592	361
Temperature Probe 25 cm PTFE	30500593	396
In Use Cover Guardian 7x7	30500594	67

Accessories	Item Number	List Price (USD)
In Use Cover Guardian 10x10	30500595	67
In Use Cover Guardian Round	30500596	67
Vessel Clamp	30500597	278
Stir Bar Retriever	30500598	59

GUARDIAN™ 5000 HOTPLATES & STIRRERS

Reliable Digital Hotplate Stirrers with Exceptional Safety Features for Everyday Use

Display

Backlit LCD Display for temperature and speed, green indicator lights when unit is heating and stirring, prominent hot top indicator light, probe in use icon, Single Point Calibration icon

Construction

Probe connection, robust, chemical resistant aluminum housing, IP32 ingress protection, control knobs, On/Off switch for heater disconnect, built-in support rod holders, easy to clean ceramic or ceramic coated aluminum tops, built-in RS232 interface

Design Features

Hot top indicator light, audible alarm, SafetyHeat™ protection shuts off the heater in the event of a malfunction, temperature calibration feature for 3 probe and 3 plate setpoints

Operation

Stirring from 50–1800 rpm, temperature range of ambient +5°C to 550°C 7x7 model, 500°C (10x10) or 360° (round top), power cord (included), stirring models include a 1.5" (3.8 cm) PTFE coated stir bar



e-G52HS07C



e-G52HSRDA

SafetyHeat™ protects the lab—an industry-leading early detection system uses two independent safety controls to monitor the electronics and stop heating before an overtemperature condition occurs.

Precise stirring from 50–1800 rpm is made possible by the design of a powerful motor, strong magnet and software controlled ramp rate, ensuring secure magnetic coupling for viscous applications.

The bright LCD display includes large temperature and speed settings, intuitive icons and a prominent hot top indicator—all designed to quickly and easily monitor performance from across the lab.

Model	Power	Function	Temp. Range	Speed Range	Max. Stirring Capacity (H ₂ O)	Plate Size	Item Number	List Price (USD)
e-G52HSRDA	100V-120V~ 8A 50/60Hz	Heating and Stirring	Ambient + 5°C–360°C	50.0 rpm–1800.0 rpm	20 L	5.3 in (13.5 cm)	30541629	850
e-G52HSRDA	220V-240V~ 4A 50/60Hz	Heating and Stirring	Ambient + 5°C–360°C	50.0 rpm–1800.0 rpm	20 L	5.3 in (13.5 cm)	30541630	850
e-G52HS07C	100V-120V~ 15A 50/60Hz	Heating and Stirring	Ambient + 5°C–550°C	50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30541631	750
e-G52HS07C	220V-240V~ 7A 50/60Hz	Heating and Stirring	Ambient + 5°C–550°C	50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30541632	750
e-G52HP07C	100V-120V~ 15A 50/60Hz	Heating	Ambient + 5°C–550°C			7x7 in (18x18 cm)	30541633	500
e-G52HP07C	220V-240V~ 7A 50/60Hz	Heating	Ambient + 5°C–550°C			7x7 in (18x18 cm)	30541634	500
e-G52ST07C	100V-120V~ 1A 50/60Hz	Stirring		50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30541635	485
e-G52ST07C	220V-240V~ 1A 50/60Hz	Stirring		50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30541636	485
e-G52HS10C	100V-120V~ 15A 50/60Hz	Heating and Stirring	Ambient + 5°C–500°C	50.0 rpm–1800.0 rpm	22 L	10x10 in (26x26 cm)	30541637	1,010
e-G52HS10C	220V-240V~ 10A 50/60Hz	Heating and Stirring	Ambient + 5°C–500°C	50.0 rpm–1800.0 rpm	22 L	10x10 in (26x26 cm)	30541638	1,010
e-G52HS07C -K1	100V-120V~ 15A 50/60Hz	Heating and Stirring	Ambient + 5°C–550°C	50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30981778	998
e-G52HS07C -K1	220V-240V~ 7A 50/60Hz	Heating and Stirring	Ambient + 5°C–550°C	50.0 rpm–1800.0 rpm	20 L	7x7 in (18x18 cm)	30981779	998
e-G52HP07C -K1	100V-120V~ 15A 50/60Hz	Heating	Ambient + 5°C–550°C			7x7 in (18x18 cm)	30981780	768
e-G52HP07C -K1	220V-240V~ 7A 50/60Hz	Heating	Ambient + 5°C–550°C			7x7 in (18x18 cm)	30981781	768
e-G52HS10C -K1	100V-120V~ 15A 50/60Hz	Heating and Stirring	Ambient + 5°C–500°C	50.0 rpm–1800.0 rpm	22 L	10x10 in (26x26 cm)	30981782	1,227
e-G52HS10C -K1	220V-240V~ 10A 50/60Hz	Heating and Stirring	Ambient + 5°C–500°C	50.0 rpm–1800.0 rpm	22 L	10x10 in (26x26 cm)	30981783	1,227

Accessories continued on next page

GUARDIAN™ 5000 HOTPLATES & STIRRERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Clamp, Holder, CLC-CLMPHA	30392195	33
Clamp, Specialty, Rod, CLS-RODS*	30392233	59
Clamp, Specialty, Column, CLS-COLMNSS	30392314	104
Clamp, Specialty, Column, CLS-COLMNSM	30392315	106
Clamp, Specialty, Column, CLS-COLMNSL	30392316	108
Clamp, Specialty, Column, CLS-COLMNSX	30392317	108
Clamp, Specialty, Nester, CLS-NESTXS	30392318	141
Ultra Flex Support Kit**	30400145	303
Support Rod And Clamp Kit	30400146	222
Spinbar 2.5 cm PTFE	30400147	20
Spinbar 3.8 cm PTFE	30400148	21
Spinbar 7 cm PTFE	30400149	67
Spinbar 10 cm with Pivot Ring PTFE	30400150	123
Base Plate 135 mm	30500570	361
Handles for Base Plate (qty 2)	30500571	288
Sectional Block 9x12 mm 2ml Flat Bottom Vials	30500572	138
Sectional Block 10x15 mm Flat Bottom Vials	30500573	138
Sectional Block Holds 7x17 mm Flat Bottom Vials	30500574	138
Sectional Block Holds 5x21 mm Flat Bottom Vials	30500575	138
Sectional Block Holds 3x28 mm Flat Bottom Vials	30500576	138
Sectional Block 9x12 mm Conical Test Tubes	30500577	279
Sectional Block 8x17 mm Conical Test Tubes	30500578	279

Accessories	Item Number	List Price (USD)
Sectional Block 6x20 mm Conical Test Tubes	30500579	279
Sectional Block 5x25 mm Conical Test Tubes	30500580	279
Uni Block 40x12 mm 2ml Flat Bottom Vials	30500581	396
Uni Block 40x15 mm Flat Bottom Vials	30500582	396
Uni Block Holds 32x17 mm Flat Bottom Vials	30500583	396
Uni Block Holds 24x21 mm Flat Bottom Vials	30500584	396
Uni Block 16x28 mm Flat Bottom Vials	30500585	396
Uni Block 40x12 mm Conical Test Tubes	30500586	446
Uni Block 32x17 mm Conical Test Tubes	30500587	446
Uni Block Holds 32x20 mm Conical Test Tubes	30500588	446
Uni Block 24x25 mm Conical Test Tubes	30500589	446
Probe PT1000(A) -40~400C 20cm SS316/304	30500590	279
Probe PT1000(A) -40~200C 20cm PTFE	30500591	311
Probe PT1000(A) -40~400C 25cm SS316/304	30500592	361
Probe PT1000(A) -40~200C 25cm PTFE	30500593	396
Vessel Clamp	30500597	278
Stir Bar Retriever	30500598	59
Spinbar 3.8 cm with Pivot Ring PTFE (qty 5)	30726783	122
Splashing Shield for e-G52XX07C	30910731	86
Splashing Shield for e-G52HS10C	30910732	102
Splashing Shield for e-G52HSRDA	30910733	80
Silicone Cover for e-G52HSRDA	30910734	63
Holder Probe Kit-1	30973298	102
Probe PT100(A) -40~400C 25cm SS 316/304	30973654	271
Probe PT1000(A) -40~400C 25cm Hastelloy	30973655	392

*30392233 is for use with the 30500570 Base Plate only

**needs a separate double clamp or hook clamp for securing on Guardian 5000

***see datasheet for compatibility with individual models

GUARDIAN™ 3000 HOTPLATES & STIRRERS

Affordable Digital Hotplate Stirrers Designed for Safety, Powerful Stirring and Rapid Heating

Display

Backlit LCD Display for temperature and speed, green indicator lights when unit is heating and stirring, prominent hot top indicator light, probe in use icon, Single Point Calibration icon

Construction

Durable metal housing, PET front panel, control knobs, on/off switch for heater disconnect, built-in support rod holder, easy-to-clean ceramic or ceramic-coated stainless steel tops

Design Features

Hot top indicator light to protect user; green indicator lights illuminate when unit is heating and stirring; temperature probe connector for use with optional temperature probe

Operation

Stirring from 80 to 1600 rpm, ambient temperature range from +5°C to 500°C (ceramic top) or 380°C (ceramic-coated steel top), power cord (included), stirring models include PTFE-coated stir bar



Industry-leading safety at affordable prices. Guardian 3000 units offer safety, controlled heating and powerful stirring for general laboratory use – all at a competitive price point.

SafetyHeat™ protects the lab. An industry-leading early detection system uses two independent safety controls to monitor electronics and stop heating before overheating occurs.

Designed to last: the rugged metal housing has a spill-resistant design for long life in the lab under harsh conditions. The smooth, chemical-resistant ceramic top makes for easy clean-ups.

Model	Power	Function	Temp. Range	Speed Range	Capacity	Plate Size	Item Number	List Price (USD)
E-G31HS07C	100V-120V~ 10A 50/60Hz	Heating & Stirring	Ambient +5°C – 500°C	80 rpm ; 1,600 rpm	15 L	7 in x 7 in (178 mm x 178 mm)	30680267	580
E-G31HS04C	100V-120V~ 5A 50/60Hz	Heating & Stirring	Ambient +5°C – 500°C	80 rpm ; 1,600 rpm	15 L	4 in x 4 in (102 mm x 102 mm)	30680268	517
E-G31HSRDS	100V-120V~ 5A 50/60Hz	Heating & Stirring	Ambient +5°C – 380°C	80 rpm ; 1,600 rpm	15 L	5.3 in (135 mm)	30680266	517

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Clamp, Specialty, Rod, CLS-RODS	30392233	59	Sectional Block 16 mm Test Tubes	30500578	279
Clamp, Specialty, Column, CLS-COLMNSS	30392314	104	Sectional Block 20 mm Test Tubes	30500579	279
Clamp, Specialty, Column, CLS-COLMNSM	30392315	106	Sectional Block 25 mm Test Tubes	30500580	279
Clamp, Specialty, Column, CLS-COLMNSL	30392316	108	Uni Block 12 mm Vials	30500581	396
Clamp, Specialty, Column, CLS-COLMNSX	30392317	108	Uni Block 15 mm vials	30500582	396
Clamp, Specialty, Nester, CLS-NESTXS	30392318	141	Uni Block 17 mm Vials	30500583	396
Spinbar 2.5 cm PTFE	30400147	20	Uni Block 21 mm Vials	30500584	396
Spinbar 3.8 cm PTFE	30400148	21	Uni Block 28 mm Vials	30500585	396
Spinbar 7 cm PTFE	30400149	67	Uni Block 12 mm Test Tubes	30500586	446
Spinbar 10 cm with Pivot Ring PTFE	30400150	123	Uni Block 16 mm Test Tubes	30500587	446
Base Plate 135 mm	30500570	361	Uni Block 20 mm Test Tubes	30500588	446
Handles for Base Plate	30500571	288	Uni Block 25 mm Test Tubes	30500589	446
Sectional Block 12 mm Vials	30500572	138	Temperature Probe 20 cm S/S	30500590	279
Sectional Block 15 mm vials	30500573	138	Temperature Probe 20 cm PTFE	30500591	311
Sectional Block 17 mm Vials	30500574	138	Temperature Probe 25 cm S/S	30500592	361
Sectional Block 21 mm Vials	30500575	138	Temperature Probe 25 cm PTFE	30500593	396
Sectional Block 28 mm Vials	30500576	138	Vessel Clamp	30500597	278
Sectional Block 12 mm Test Tubes	30500577	279	Stir Bar Retriever	30500598	59



Accessories continued on next page

GUARDIAN™ 3000 HOTPLATES & STIRRERS ACCESSORIES

Accessories	Item Number	List Price (USD)
Holder Kit Thermometer e-G31	30692826	104

Accessories	Item Number	List Price (USD)
Spinbar 3.8 cm with Pivot Ring PTFE	30726783	122

GUARDIAN™ 2000 HOTPLATES & STIRRERS

Rugged and Reliable Analog Hotplates and Stirrers for General Purpose Heating and Stirring

Display

Prominent hot top indicator light, green indicator lights when unit is heating and stirring

Construction

Durable metal housing, PET front panel, control knobs, ON/OFF switch for heater disconnect, built-in support rod holder, easy to clean resin, ceramic or ceramic-coated stainless steel tops

Design Features

Hot top indicator light to protect user, green indicator lights illuminate when unit is heating and stirring

Operation

Simple knob control, stirring up to 1600 rpm, temperature up to 500°C (ceramic top) or 380°C (ceramic-coated stainless steel top), power cord (included), stirring models include PTFE-coated stir bar



Powerful stirring and fast heating at an economical price. Safely heat up to 500°C and stir up to 15L with easy to use knob control for simple and reliable everyday heating and stirring in the lab.

Designed to last: The rugged metal housing has a spill resistant design for a long lifetime in the lab under harsh conditions. The smooth, chemical-resistant ceramic top plate is perfect for easy cleanup.

Safety is of utmost importance, and the prominent hot top indicator light illuminates when the heater is above 40°C, keeping the end user safe during all heating applications.

Model	Power	Function	Temp. Range	Speed Range	Capacity	Plate Size	Item Number	List Price (USD)
E-G21HS07C	100V-120V~ 10A 60Hz	Heating and Stirring	70°C - 500°C	200 rpm ; 1,600 rpm	15 L	7 in x 7 in (178 mm x 178 mm)	30680258	468
E-G21HS04C	100V-120V~ 10A 60Hz	Heating and Stirring	70°C - 500°C	200 rpm ; 1,600 rpm	15 L	4 in x 4 in (102 mm x 102 mm)	30680259	429
E-G21HSRDS	100V-120V~ 10A 60Hz	Heating and Stirring	50°C - 380°C	200 rpm ; 1,600 rpm	15 L	5.3 in (135 mm)	30680257	429
E-G21ST07R	100V-120V~ 2A 60Hz	Stirring		200 rpm ; 1,600 rpm	15 L	7 in x 7 in (178 mm x 178 mm)	30680264	313
E-G21ST04R	100V-120V~ 2A 60Hz	Stirring		200 rpm ; 1,600 rpm	15 L	4 in x 4 in (102 mm x 102 mm)	30680265	290
E-G21STRDS	100V-120V~ 2A 60Hz	Stirring		200 rpm ; 1,600 rpm	15 L	5.3 in (135 mm)	30680263	313
E-G21HP07C	100V-120V~ 10A 50/60Hz	Heating	70°C - 500°C		15 L	7 in x 7 in (178 mm x 178 mm)	30680261	308
E-G21HP04C	100V-120V~ 5A 50/60Hz	Heating	70°C - 500°C		15 L	4 in x 4 in (102 mm x 102 mm)	30680262	275
E-G21HPRDS	100V-120V~ 5A 50/60Hz	Heating	50°C - 380°C		15 L	5.3 in (135 mm)	30680260	308

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Spinbar 2.5 cm PTFE	30400147	20	Vessel Clamp	30500597	278
Spinbar 3.8 cm PTFE	30400148	21	Stir Bar Retriever	30500598	59
Spinbar 7 cm PTFE	30400149	67	Holder Kit Thermometer e-G31	30692826	104
Spinbar 10 cm with Pivot Ring PTFE	30400150	123	Spinbar 3.8 cm with Pivot Ring PTFE	30726783	122

MULTI-POSITION STIRRERS

Synchronized and Uniform Mixing

Display

Independent LED displays for speed and time (on digital models); Knob with 1-10 dial markings (on non-digital models)

Construction

Cast aluminum housing, glass filled nylon top plate. Includes stir bars to accommodate each stirring position

Design Features

Speed ramping feature slowly increases motor speed for enhanced coupling & improved stirring.

Microprocessor-controlled for precise speed regulation. Timer counts up or when programmed to a set time will turn off stirring & sound alarm when timer reaches zero.



The 318 × 279 mm top plate accommodates up to 9 × 250 mL or 4 × 1 L flasks. The glass-filled nylon surface has a reflective white color, is chemical-resistant & minimizes unintended heating of samples.

Speed ramping feature slowly increases the motor speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control and provides excellent low-end speed control.

Digital models have touchpad controls for input of speed & time. Non-digital models have an adjustment knob with dial markings from 1-10. The microprocessor regulates adjustments throughout the range.

Model	Speed Range	Capacity	Dimensions	Timer	Item Number	List Price (USD)
STMP4AL	60 rpm to 1400 rpm	4 × 1L	17 in × 4 in × 11 in (432 mm × 970 mm × 279 mm)	-	30573789	1,763
STMP9AL	60 rpm to 1400 rpm	9 × 250mL	17 in × 4 in × 11 in (432 mm × 970 mm × 279 mm)	-	30573794	2,531
STMP4DG	60 rpm to 1400 rpm	4 × 1L	17 in × 4 in × 11 in (432 mm × 970 mm × 279 mm)	1 second – 160 hours	30573799	2,044
STMP9DG	60 rpm to 1400 rpm	9 × 250mL	17 in × 4 in × 11 in (432 mm × 970 mm × 279 mm)	1 second – 160 hours	30573804	3,310

Accessories	Item Number	List Price (USD)
Spinbar 2.5 cm PTFE	30400147	20

LARGE VOLUME STIRRERS

Powerful Motor and Magnet Mixes Samples Up To 200 L

Display

Independent LED displays for speed, and time (on digital models); Knob with 1-10 dial markings (on non-digital models)

Construction

High Volume Stirrers feature a cast aluminum housing and glass filled nylon top plate. Large Capacity Stirrers feature both stainless steel housing and top plate. Models include either a 70 mm egg shaped stir bar or 102 mm stir bar with pivot ring.

Design Features

Speed ramping feature slowly increases motor speed for enhanced coupling & improved stirring. Microprocessor-controlled for precise speed regulation. Timer counts up or when programmed to a set time, will turn off stirring & sound alarm when timer reaches 0.



Large Capacity Stirrers with a 100 or 200 L capacity are made with a stainless steel base offering durability and stability, and feature a 54 x 53 cm stainless steel top plate.

Large 32 x 28 cm top plate is chemical-resistant with a white reflective surface that is easy to clean. Digital and non-digital models allow you to choose the right model for your application.

Speed ramping feature slowly increases the motor speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control and provides excellent low-end speed control.

Model	Control	Speed Range	Capacity	Dimensions	Plate Size	Timer	Item Number	List Price (USD)
STHVAL	Analog	60 rpm - 1400 rpm	25 L	17 in x 4 in x 11 in (432 mm x 97 mm x 279 mm)	12.5 in x 11 in (318 mm x 279 mm)	-	30573809	1,314
STHVDG	Digital	60 rpm - 1400 rpm	25 L	17 in x 4 in x 11 in (432 mm x 97 mm x 279 mm)	12.5 in x 11 in (318 mm x 279 mm)	1 second – 160 hours	30573814	1,530
STLC1DG	Digital	100 rpm - 1800 rpm	100 L	28.5 in x 5.25 in x 26.75 in (724 mm x 133 mm x 680 mm)	21.25 in x 25 in (540 mm x 635 mm)	1 second – 160 hours	30573819	4,223
STLC2DG	Digital	100 rpm - 1800 rpm	200 L	28.5 in x 5.25 in x 26.75 in (724 mm x 133 mm x 680 mm)	21.25 in x 25 in (540 mm x 635 mm)	1 second – 160 hours	30573825	6,056

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Spinbar 7 cm PTFE	30400149	67	Spinbar 10 cm with Pivot Ring PTFE	30400150	123

ACHIEVER™ 5000

Reliable Overhead Stirrers with Excellent Performance for Everyday Use

Display

Bright LED digital display for speed, real-time torque tendency LED indicator bar, and integrated timer

Construction

Sealed aluminum housing with IP54 ingress protection rating. Keyless Chuck for simple, one-hand operation, and brushless motor for quiet operation and main power switch

Design Features

Compact design for easy handling, simple knob control, lock button to prevent unintentional setting changes, and full protection for overload, overtemperature and overcurrent conditions

Operation

Stirring from 6 rpm to 2000 rpm with speed accuracy of 1 rpm and maximum torque from 20 Ncm to 200 Ncm, depending on model. Stable torque at any speed, and volume capacity ranging from 25L to 100L



Powerful mixing and constant speed is assured with the brushless motor and torque compensation technology – delivering accurate, controlled stirring of viscous liquids with quiet operation.

Simplify setup with the Keyless Chuck – no tools required. Change shafts quickly and easily with one-handed operation. This unique design will save time and effort for everyone in the lab.

Designed for safety. The lock button prevents accidental speed changes, and the motor's overload sensing technology simply shuts off stirring before an overload condition occurs to protect the sample.

Model	Speed Range	Speed Accuracy	Stirring Volume (L)	Timer	Max Viscosity (mPas)	Torque @ Max Speed (Ncm)	Chuck Range (Diameter)	Shaft Pass-Through (Diameter)	Item Number	List Price (USD)
e-A51ST020	30 rpm – 2000 rpm	±1 rpm	25 L	1 minute – 99 hours, 59 minutes	maximum 10,000	20 Ncm	1-13 mm	up to 8.5 mm	30586763	1,691
e-A51ST040	30 rpm – 2000 rpm	±1 rpm	25 L	1 minute – 99 hours, 59 minutes	maximum 25,000	40 Ncm	1-13 mm	up to 8.5 mm	30586764	1,869
e-A51ST060	30 rpm – 2000 rpm	±1 rpm	40 L	1 minute – 99 hours, 59 minutes	maximum 50,000	60 Ncm	1-13 mm	up to 8.5 mm	30586765	2,111
e-A51ST100	30 rpm – 1300 rpm	±1 rpm	100 L	1 minute – 99 hours, 59 minutes	maximum 70,000	100 Ncm	1-13 mm	up to 8.5 mm	30586766	2,762
e-A51ST200	6 rpm – 400 rpm; 30 rpm – 2000 rpm	±1 rpm	100 L	1 minute – 99 hours, 59 minutes	maximum 100,000	200 Ncm	1-13 mm	up to 8.5 mm	30586767	2,940

Accessories	Item Number	List Price (USD)
Support Stand Universal-H	30586771	475
Support Stand Telescopic-H	30586772	757
Clamp Double	30586773	103
Clamp Ribbon	30586774	150
Stirrer Shaft 40x0.7 cm Anchor Blade	30586775	165
Stirrer Shaft 40x0.7 cm Fixed Blade	30586776	165
Stirrer Shaft 40x0.7 cm Floating Blade	30586777	171

Accessories	Item Number	List Price (USD)
Stirrer Shaft 40x0.7 cm Folding Blade	30586778	171
Stirrer Shaft 51x0.7 cm Paddle 6 Holes	30586779	171
Stirrer Shaft 40x0.7 cm Propeller	30586780	171
Stirrer Shaft 40x0.7 cm Turbine	30586781	309
Stirrer Shaft 40x0.7 cm Turbo Propeller	30586782	309
Chuck Cover e-A51	30586842	131

HT LYSING HOMOGENIZER

Provides Simple and Powerful Solutions for Rapid High-Throughput Grinding

Display

Easy-to-read LED display allows the operator to view speed and time settings

Construction

Polyurethane Elastomer top housing, Cyclooy bottom housing, and Lexan lid

Design Features

Microprocessor-controlled unit includes sample clamp and hex key

Operation

Five pre-set program buttons and touchpad controls for speed and time



For high performance grinding, the HT Lysing Homogenizer is one of the most flexible models on the market. The built-in adjustable holder allows for easy processing of samples - no accessories needed.

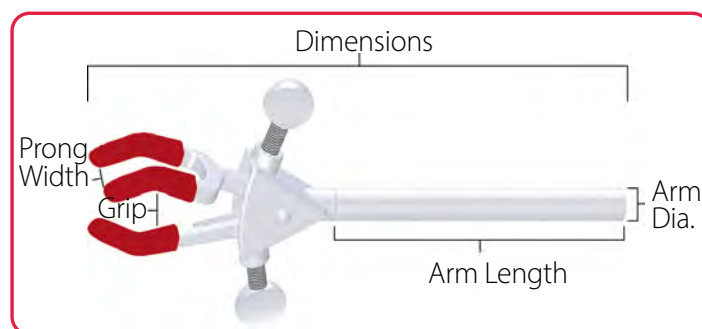
This versatile Homogenizer allows high throughput grinding, and is ideal for processing multiple tubes, microplates, deep-well plates, or any sample container that fits in the 10.2x12.7x6.4 cm holder.

Take the guesswork out of sample preparation. Five preset programs optimized for speed and time to process the most common samples, including bacteria, fungi, plant, and animal tissue easily.

Model	Speed Range	Motion	Timer	Capacity	Max Capacity	Dimensions	Item Number	List Price (USD)			
HOHTDG	300 rpm – 1600 rpm	Vertical, 31 mm	1 second – 10 minutes	1 Deep Well, 4 Microplates or any sample to 10.2 × 12.7 × 6.4 cm	0.7 lb (300 g)	17.5 in × 20.5 in × 11.5 in (443 mm × 518 mm × 288 mm)	30391393	11,670			
Accessories				Item Number	List Price (USD)	Accessories			Item Number	List Price (USD)	
2mL Tube, White, Bacteria, 100/box				30391402	483	2mL Tube, Red, Animal Tissue, 100/box				30391409	483
2mL Tube, Yellow, Yeast, 100/box				30391404	483	2mL Tube, Brown, Environmental, 100/box				30391410	497
2mL Tube, Blue, Fungi, 100/box				30391405	483	Tube Rack, 25 × 2ml Tubes, 2 per pack				30391431	21
2mL Tube, Orange, Soft Sample, 100/box				30391406	483	Sample Tube Kit, 14 Tubes				30391433	58
2mL Tube, Green, Plant, 100/box				30391408	483						

MULTI PURPOSE CLAMPS

A LabJaws Clamp for Every Application - Choose From Over 85 Options to Hold Everything In Your Lab



Hosecock - Adjustable Control

Model	Grip Range	Dimensions	Material	Item Number	List Price (USD)
CLF-HKRGZ	0 in ; 0.67 in (0 mm ; 17 mm)	2.44 in x 1.46 in (62 mm x 37 mm)	Nickel plated	30392210	39
CLF-HKRG5	0 in ; 0.67 in (0 mm ; 17 mm)	2.44 in x 1.46 in (62 mm x 37 mm)	Stainless Steel	30392221	93



2-Prong Dual Adjust

Model	Size	Grip Range	Prong Width	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLM-MULTI2DZL	Large	0 in ; 3.74 in (0 mm ; 95 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	9.76 in (248 mm)	Nickel plated	30392207	59
CLM-MULTI2DZM	Medium	0 in ; 2.95 in (0 mm ; 75 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	9.02 in (229 mm)	Nickel plated	30392209	55
CLM-MULTI2DSM	Medium	0 in ; 2.95 in (0 mm ; 75 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	9.02 in (229 mm)	Stainless Steel	30392220	130
CLM-MULTI2DSL	Large	0 in ; 3.74 in (0 mm ; 95 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	9.76 in (248 mm)	Stainless Steel	30392223	152



2-Prong Single Adjust

Model	Size	Grip Range	Prong Width	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLM-MULTI2SZL	Large	0 in ; 3.62 in (0 mm ; 92 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	9.02 in (229 mm)	Nickel plated	30392206	58
CLM-MULTI2SZM	Medium	0 in ; 3.07 in (0 mm ; 78 mm)	0.91 in (23 mm)	5 in (127 mm)	0.43 in (11 mm)	8.5 in (216 mm)	Nickel plated	30392208	53
CLM-SWIVL2SZM	Medium	0 in ; 3 in (0 mm ; 76 mm)	0.91 in (23 mm)			6.42 in (163 mm)	Nickel plated	30392215	55
CLM-SWIVL2SZL	Large	0 in ; 3.74 in (0 mm ; 95 mm)	0.91 in (23 mm)			7.09 in (180 mm)	Nickel plated	30392216	58
CLM-FIXED2SZM	Medium	0 in ; 3.03 in (0 mm ; 77 mm)	0.91 in (23 mm)			5.24 in (133 mm)	Nickel plated	30392218	50
CLM-SWIVL2SSM	Medium	0 in ; 3 in (0 mm ; 76 mm)	0.91 in (23 mm)			6.42 in (163 mm)	Stainless Steel	30392226	150
CLM-FIXED2SSM	Medium	0 in ; 3.03 in (0 mm ; 77 mm)	0.91 in (23 mm)			5.24 in (133 mm)	Stainless Steel	30392230	149



Buret Holder

Model	Size	Dimensions	Material	Item Number	List Price (USD)
CLS-BTDBLS	micro – 100 mL burets	6.8 in × 4.25 in (173 mm × 108 mm)	Stainless Steel	30392227	252
CLS-BTDBLZ	micro – 100 mL burets	4.25 in × 6.8 in (173 mm × 108 mm × 173 mm)	Nickel plated	30392234	96



Double 2-Prong Single Adjust

Model	Grip Range	Dimensions	Material	Item Number	List Price (USD)
CLS-DBJAWZ	0 in ; 3 in (0 mm ; 76 mm)	8.74 in (222 mm)	Nickel plated	30392236	68



Thermometer

Model	Grip Range	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLS-THMSWZ	0.24 in ; 0.32 in (6 mm ; 8 mm)			6.26 in (159 mm)	Nickel plated	30392238	65
CLS-THMEXZ	0.24 in ; 0.47 in (6 mm ; 12 mm)	5 in (127 mm)	0.43 in (11 mm)	8.27 in (210 mm)	Nickel plated	30392239	56



2-Prong Dual Adjust Water Bath

Model	Size	Grip Range	Dimensions	Material	Item Number	List Price (USD)
CLS-WBATHZS	Small	0.2 in ; 0.39 in (5 mm ; 10 mm)	3.5 in (89 mm)	Nickel plated	30392240	47



3-Prong Dual Adjust Water Bath

Model	Size	Grip Range	Dimensions	Material	Item Number	List Price (USD)
CLS-WBATHZL	Large	0 in ; 1.81 in (0 mm ; 46 mm)	4.61 in (117 mm)	Nickel plated	30392241	65



Electrode

Model	Dimensions	Material	Item Number	List Price (USD)
CLS-ELECTZ	7 in (178 mm)	Nickel plated	30392242	100



Suspension

Model	Dimensions	Material	Item Number	List Price (USD)
CLS-SUSPNB	5.39 in (137 mm)	Nickel plated	30392243	48



2-Prong Dual Adjust Wall Mount

Model	Grip Range	Dimensions	Material	Item Number	List Price (USD)
CLS-WALLCZ	0.2 in ; 0.39 in (5 mm ; 10 mm)	3.15 in (80 mm)	Nickel plated	30392244	48



3-Prong Single Adjust

Model	Size	Grip Range	Prong Width	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLM-MULTI3SZL	Large	0 in ; 4.25 in (0 mm ; 108 mm)	1.14 in (29 mm)	5 in (127 mm)	0.43 in (11 mm)	9.76 in (248 mm)	Nickel plated	30392200	72
CLM-MULTI3SZM	Medium	0 in ; 2.8 in (0 mm ; 71 mm)	0.75 in (19 mm)	5 in (127 mm)	0.43 in (11 mm)	8.58 in (218 mm)	Nickel plated	30392203	70
CLM-MULTI3SZS	Small	0 in ; 1.54 in (0 mm ; 39 mm)	0.43 in (11 mm)	4 in (102 mm)	0.32 in (8 mm)	6.3 in (160 mm)	Nickel plated	30392205	67
CLM-ULTRA3SZL	Large	0 in ; 2.83 in (0 mm ; 72 mm)	1.14 in (29 mm)	5 in (127 mm)	0.43 in (11 mm)	10.24 in (260 mm)	Nickel plated	30392250	84
CLM-ULTRA3SZM	Medium	0 in ; 1.97 in (0 mm ; 50 mm)	0.75 in (19 mm)	5 in (127 mm)	0.43 in (11 mm)	9.02 in (229 mm)	Nickel plated	30392252	76
CLM-ULTRA3SZS	Small	0 in ; 0.91 in (0 mm ; 23 mm)	0.24 in (6 mm)	4 in (102 mm)	0.32 in (8 mm)	6.38 in (162 mm)	Nickel plated	30392254	75



Chain

Model	Size	Grip Range	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLS-CHAINSL	Large	1.38 in ; 11.02 in (35 mm ; 280 mm)	5 in (127 mm)	0.51 in (13 mm)	8.11 in (206 mm)	Stainless Steel	30392224	318
CLS-CHAINZM	Small	1.38 in ; 6.69 in (35 mm ; 170 mm)	5 in (127 mm)	0.51 in (13 mm)	7.4 in (188 mm)	Nickel plated	30392235	91
CLS-CHAINZL	Large	1.38 in ; 11.02 in (35 mm ; 280 mm)	5 in (127 mm)	0.51 in (13 mm)	8.11 in (206 mm)	Nickel plated	30392259	131
CLS-CHNEXZL	Large	1.38 in ; 11.02 in (35 mm ; 280 mm)	12 in (305 mm)	0.51 in (13 mm)	15.12 in (384 mm)	Nickel plated	30392260	140



Column

Model	Size	Grip Range	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLS-COLMNSS	Small	2.56 in ; 3.5 in (65 mm ; 89 mm)	8.31 in (211 mm)	0.43 in (11 mm)	11.1 in (282 mm)	Stainless Steel	30392314	104
CLS-COLMNSM	Medium	3.58 in ; 4.49 in (91 mm ; 114 mm)	8.31 in (211 mm)	0.43 in (11 mm)	12.41 in (315 mm)	Stainless Steel	30392315	106
CLS-COLMNSL	Large	2.52 in ; 5.51 in (64 mm ; 140 mm)	8.31 in (211 mm)	0.43 in (11 mm)	13.31 in (338 mm)	Stainless Steel	30392316	108
CLS-COLMNSX	Extra Large	3.62 in ; 6.5 in (92 mm ; 165 mm)	8.31 in (211 mm)	0.43 in (11 mm)	14.49 in (368 mm)	Stainless Steel	30392317	108



Nester

Model	Grip Range	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLS-NESTXS	1.97 in ; 4 in (50 mm ; 102 mm)	5.98 in (152 mm)	0.39 in (10 mm)	10.32 in (262 mm)	Stainless Steel	30392318	141



Open Ring

Model	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLS-OPENRAS	2.28 in (58 mm)	0.35 in (9 mm)	5.2 in (132 mm)	Aluminum	30392343	47
CLS-OPENRAM	2.28 in (58 mm)	0.35 in (9 mm)	6.22 in (158 mm)	Aluminum	30392344	61
CLS-OPENRAL	2.4 in (61 mm)	0.43 in (11 mm)	7.2 in (183 mm)	Aluminum	30392345	83
CLS-OPENRPS	10 in (254 mm)	0.35 in (9 mm)	12.91 in (382 mm)	PVC	30392346	99
CLS-OPENRPM	12 in (305 mm)	0.35 in (9 mm)	15.91 in (404 mm)	PVC	30392347	109
CLS-OPENRPL	12 in (305 mm)	0.43 in (11 mm)	16.81 in (427 mm)	PVC	30392348	148



3-Prong Dual Adjust

Model	Size	Grip Range	Prong Width	Arm Length	Arm Diameter	Dimensions	Material	Item Number	List Price (USD)
CLM-MULTI3DZL	Large	0 in ; 4.13 in (0 mm ; 105 mm)	1.14 in (29 mm)	5 in (127 mm)	0.43 in (11 mm)	10.75 in (273 mm)	Nickel plated	30392198	72
CLM-MLTEX3DZL	Large	0 in ; 4.13 in (0 mm ; 105 mm)	1.14 in (29 mm)	12 in (305 mm)	0.5 in (13 mm)	17.76 in (451 mm)	Nickel plated	30392199	91
CLM-MULTI3DZM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.75 mm (19 mm)	5 in (127 mm)	0.43 in (11 mm)	9.02 in (229 mm)	Nickel plated	30392201	70
CLM-MLTEX3DZM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.75 mm (19 mm)	12 in (305 mm)	0.5 in (13 mm)	16 in (406 mm)	Nickel plated	30392202	85
CLM-MULTI3DZS	Small	0 in ; 1.81 in (0 mm ; 46 mm)	0.43 in (11 mm)	4 in (102 mm)	0.32 in (8 mm)	6.61 in (168 mm)	Nickel plated	30392204	67
CLM-SWIVL3DZM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.79 in (20 mm)			7.01 in (178 mm)	Nickel plated	30392214	75
CLM-FIXED3DZM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.79 in (20 mm)			5.75 in (146 mm)	Nickel plated	30392217	65
CLM-SWIVL3DSM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.79 in (20 mm)			7.01 in (178 mm)	Stainless Steel	30392225	200
CLM-FIXED3DSM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.79 in (20 mm)			5.75 in (146 mm)	Stainless Steel	30392229	185
CLM-ULTRA3DZL	Large	0 in ; 4.06 in (0 mm ; 103 mm)	1.14 in (29 mm)	5 in (127 mm)	0.43 in (11 mm)	10.24 in (260 mm)	Nickel plated	30392249	84
CLM-ULTRA3DZM	Medium	0 in ; 2.76 in (0 mm ; 70 mm)	0.75 in (19 mm)	5 in (127 mm)	0.43 in (11 mm)	8.74 in (222 mm)	Nickel plated	30392251	76
CLM-ULTRA3DZS	Small	0 in ; 1.26 in (0 mm ; 32 mm)	0.24 in (6 mm)	4 in (102 mm)	0.32 in (8 mm)	5.98 in (152 mm)	Nickel plated	30392253	75
CLM-MULTI3DSL	Large	0 in ; 4 in (0 mm ; 102 mm)	1.14 in (29 mm)	5 in (127 mm)	0.51 in (13 mm)	10.75 in (273 mm)	Stainless Steel	30392352	155
CLM-MULTI3DSM	Medium	0 in ; 2.72 in (0 mm ; 69 mm)	0.75 in (19 mm)	5 in (127 mm)	0.51 in (13 mm)	9.02 in (229 mm)	Stainless Steel	30392353	141
CLM-MULTI3DSS	Small	0 in ; 1.9 in (0 mm ; 48 mm)	0.51 in (13 mm)	4 in (102 mm)	0.39 in (10 mm)	6.77 in (172 mm)	Stainless Steel	30392354	120



Kettle

Model	Size	Item Number	List Price (USD)
CLS-KTLCLS	500 mL, 1000 mL Flask	30392365	250
CLS-KTLCLM	2000 mL, 3000 mL, 4000 mL Flask	30392366	252



Airejector

Model	Dimensions	Material	Item Number	List Price (USD)
CLN-AIREJ	140 mm x 5.51 in	Nickel plated	30392367	164

RODS, FRAMES & SUPPORTS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

Lab Frame Rod

Model	Material	Rod Length	Item Number	List Price (USD)
CLR-RODA004	Aluminum	1.61 in (41 mm)	30392271	13
CLR-RODA005	Aluminum	2 in (51 mm)	30392272	17
CLR-RODA015	Aluminum	6 in (152 mm)	30392273	20
CLR-RODA030	Aluminum	12 in (305 mm)	30392274	26
CLR-RODA046	Aluminum	18 in (457 mm)	30392275	27
CLR-RODA061	Aluminum	24 in (610 mm)	30392276	36
CLR-RODA091	Aluminum	36 in (914 mm)	30392277	39
CLR-RODA122	Aluminum	48 in (1,219 mm)	30392278	59
CLR-RODA152	Aluminum	60 in (1,524 mm)	30392279	66
CLR-RODA183	Aluminum	72 in (1,829 mm)	30392280	71
CLR-RODA244	Aluminum	96 in (2,438 mm)	30392281	91
CLR-RODS004	Stainless Steel	1.61 in (41 mm)	30392293	19
CLR-RODS005	Stainless Steel	2 in (51 mm)	30392294	19
CLR-RODS015	Stainless Steel	6 in (152 mm)	30392295	22
CLR-RODS030	Stainless Steel	12 in (305 mm)	30392296	36
CLR-RODS046	Stainless Steel	18 in (457 mm)	30392297	45
CLR-RODS061	Stainless Steel	24 in (610 mm)	30392298	56
CLR-RODS091	Stainless Steel	36 in (914 mm)	30392299	76
CLR-RODS122	Stainless Steel	48 in (1,219 mm)	30392300	97
CLR-RODS152	Stainless Steel	60 in (1,524 mm)	30392301	112
CLR-RODS183	Stainless Steel	72 in (1,829 mm)	30392302	133
CLR-RODS244	Stainless Steel	96 in (2,438 mm)	30392303	175



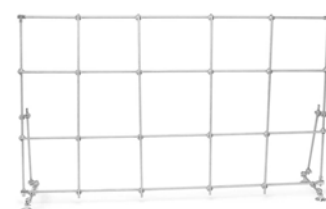
Rod with Channel Connector

Model	Material	Dimensions	Grip Range	Connection Angle	Rod Length	Adjustment Type	Maximum Capacity	Item Number	List Price (USD)
CLC-UNSMBA	Aluminum		0 in ; 0.78 in (0 mm ; 20 mm)			Thumbscrew	5 lb (2.27 kg)	30392265	19
CLC-HTZMBA05	Aluminum				2 in (51 mm)	Locking Nut		30392266	44
CLC-HTZMBA10	Aluminum				4 in (102 mm)	Locking Nut		30392267	48
CLC-HTZMBA15	Aluminum				6 in (152 mm)	Locking Nut		30392268	51
CLC-HTZMBA20	Aluminum				8 in (203 mm)	Locking Nut		30392269	56
CLC-SHGRPA	Aluminum	7.75 in (197 mm)		Fixed 90°		Thumbscrew		30392311	333



Buret Holder Kit

Model	Material	Dimensions	Rod Length	Size	Item Number	List Price (USD)
CLS-BTSETS	Stainless Steel	7 in × 1 in × 13 in (178 mm × 25 mm × 330 mm)	22.76 in (578 mm)	micro – 100 mL burets	30392231	520
CLS-BTSETA	Nickel plated	7 in × 1 in × 13 in (178 mm × 25 mm × 330 mm)	22.76 in (578 mm)	micro – 100 mL burets	30392313	364



Lab Frame Kit

Model	Material	Dimensions	Size	Item Number	List Price (USD)
CLR-FRAMEAS	Aluminum	18 in × 24 in × 24 in (457 mm × 610 mm × 610 mm)	Small	30392304	684
CLR-FRAMEAM	Aluminum	18 in × 24 in × 48 in (457 mm × 610 mm × 1,219 mm)	Medium	30392305	855
CLR-FRAMEAL	Aluminum	18 in × 48 in × 48 in (457 mm × 1,219 mm × 1,219 mm)	Large	30392306	1,320
CLR-FRAMEAX	Aluminum	12 in × 48 in × 72 in (305 mm × 1,219 mm × 1,829 mm)	Extra Large	30392307	1,811
CLR-FRAMESS	Stainless Steel	18 in × 24 in × 24 in (457 mm × 610 mm × 610 mm)	Small	30392323	1,168
CLR-FRAMESM	Stainless Steel	18 in × 24 in × 48 in (457 mm × 610 mm × 1,219 mm)	Medium	30392324	1,644
CLR-FRAMESL	Stainless Steel	18 in × 48 in × 48 in (457 mm × 1,219 mm × 1,219 mm)	Large	30392325	2,304
CLR-FRAMESX	Stainless Steel	12 in × 48 in × 72 in (305 mm × 1,219 mm × 1,829 mm)	Extra Large	30392326	2,531
CLR-FHOODSS	Stainless Steel	12 in × 36 in × 38 in (305 mm × 914 mm × 965 mm)		30392329	1,482
CLR-FHOODSM	Stainless Steel	12 in × 36 in × 50 in (305 mm × 914 mm × 1,270 mm)		30392330	1,612
CLR-FHOODSL	Stainless Steel	12 in × 36 in × 62 in (305 mm × 914 mm × 1,575 mm)		30392331	1,730
CLR-FHOODSX	Stainless Steel	12 in × 36 in × 86 in (305 mm × 914 mm × 2,184 mm)		30392332	1,979



Model	Item Number	List Price (USD)
CLR-RODAX	30392333	149



Support Plates

Model	Material	Adjustment Type	Platform Size	Size	Item Number	List Price (USD)
CLR-PLATEAR	Aluminum		6 in (152 mm)		30392342	112
CLR-PLATEAS	Aluminum	Thumbscrew	9.5 in × 6.5 in (241 mm × 165 mm)	Small	30392349	207
CLR-PLATEAL	Aluminum	Thumbscrew	12.75 in × 9 in (324 mm × 229 mm)	Medium	30392350	329
CLR-PLATEAX	Aluminum	Thumbscrew	15.75 in × 12 in (400 mm × 305 mm)	Large	30392351	411



Lab Frame Foot

Model	Material	Dimensions	Grip Range	Adjustment Type	Item Number	List Price (USD)
CLR-LFOOTZ	Nickel plated	1.25 in × 2.3 in (32 mm × 58.4 mm)	0 in ; 0.51 in (0 mm ; 13 mm)	Set Screw	30392263	39
CLR-LFOOTS	Stainless Steel	1.25 in × 2.3 in × 2.3 in (58.4 mm × 32 mm × 58.4 mm)	0 in ; 0.51 in (0 mm ; 13 mm)	Set Screw	30392356	75



Connector

Model	Material	Grip Range	Connection Angle	Adjustment Type	Item Number	List Price (USD)
CLC-RDENDS	Stainless Steel	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Set Screw	30392222	55
CLC-LTTCEA	Aluminum	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Set Screw	30392255	308
CLC-RDENDZ	Nickel plated	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Set Screw	30392256	25
CLC-SCONNZ	Nickel plated	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Set Screw	30392257	34
CLC-HOOKCZ	Nickel plated	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Thumbscrew	30392258	22
CLC-MTRODZ	Nickel plated	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Thumbscrew & Set Screw	30392262	56
CLC-EN2ENA	Aluminum	0 in ; 0.51 in (0 mm ; 13 mm)	End to End	Set Screw	30392264	37
CLC-SCONNS	Stainless Steel	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Set Screw	30392355	51
CLC-HOOKCS	Stainless Steel	0 in ; 0.51 in (0 mm ; 13 mm)	Fixed 90°	Thumbscrew	30392358	48



Support Stand Base

Model	Material	Dimensions	Item Number	List Price (USD)
CLR-RBASECS	Cast Iron	4 in × 6 in (102 mm × 152 mm)	30392359	64
CLR-RBASECM	Cast Iron	5 in × 8 in (127 mm × 203 mm)	30392360	98
CLR-RBASECL	Cast Iron	6 in × 9 in (152 mm × 229 mm)	30392361	130
CLR-RBASECX	Cast Iron	8 in × 10 in (203 mm × 254 mm)	30392362	186
CLR-TBASEC	Cast Iron	14.75 in (375 mm)	30392363	119
CLR-UBASEC	Cast Iron	7 in × 7 in (178 mm × 178 mm)	30392364	64



Lab Lift

Model	Material	Height Range	Maximum Capacity	Platform Size	Item Number	List Price (USD)
CLR-LBLFTS008	Stainless Steel	64 mm ; 127	100 lb (45.36 kg)	3 in × 3 in (76 mm × 76 mm)	30400000	273
CLR-LBLFTS010	Stainless Steel	64 mm ; 127	100 lb (45.36 kg)	4 in × 4 in (102 mm × 102 mm)	30400001	331
CLR-LBLFTS015	Stainless Steel	76 mm ; 248	133 lb (60.33 kg)	6 in × 6 in (152 mm × 152 mm)	30400002	339
CLR-LBLFTS020	Stainless Steel	76 mm ; 248	227 lb (102.97 kg)	8 in × 8 in (203 mm × 203 mm)	30400003	454
CLR-LBLFTS025	Stainless Steel	89 mm ; 330	247 lb (112.04 kg)	10 in × 10 in (254 mm × 254 mm)	30400004	496
CLR-LBLFTS030	Stainless Steel	102 mm ; 495	100 lb (45.36 kg)	12 in × 12 in (305 mm × 305 mm)	30400005	1,303
CLR-LBLFTS041	Stainless Steel	102 mm ; 495	100 lb (45.36 kg)	16 in × 16 in (406 mm × 406 mm)	30400006	2,314
CLR-LBLFTA010	Aluminum	64 mm ; 127	66 lb (29.94 kg)	4 in × 4 in (102 mm × 102 mm)	30400007	252
CLR-LBLFTA015	Aluminum	76 mm ; 248	132 lb (59.87 kg)	6 in × 6 in (152 mm × 152 mm)	30400008	311
CLR-LBLFTA020	Aluminum	76 mm ; 248	176 lb (79.83 kg)	8 in × 8 in (203 mm × 203 mm)	30400009	372
CLR-LBLFTA025	Aluminum	89 mm ; 330	186 lb (84.37 kg)	10 in × 10 in (254 mm × 254 mm)	30400010	488



Flex System

Model	Material	Dimensions	Grip Range	Arm Diameter	Arm Length	Item Number	List Price (USD)
CLS-FLEXSM	Nickel plated	5 in × 0.5 in × 5 in (127 mm × 13 mm × 127 mm)		0.51 in (13 mm)	12 in (305 mm)	30400011	413
CLS-FLEXBM	Nickel plated		0 mm ; 43 mm	0.51 in (13 mm)	12 in (305 mm)	30400012	369
CLS-FLEXLM	Nickel plated		0 mm ; 19 mm	0.51 in (13 mm)	12 in (305 mm)	30400013	318
CLS-FLEXSL	Nickel plated	5 in × 0.5 in × 5 in (127 mm × 13 mm × 127 mm)		0.51 in (13 mm)	18 in (457 mm)	30400014	498

Model	Material	Dimensions	Grip Range	Arm Diameter	Arm Length	Item Number	List Price (USD)
CLS-FLEXBL	Nickel plated		0 mm ; 43 mm	0.51 in (13 mm)	18 in (457 mm)	30400015	438
CLS-FLEXLL	Nickel plated		0 mm ; 19 mm	0.51 in (13 mm)	18 in (457 mm)	30400016	382



Gas Cylinder Supports

Model	Material	Dimensions	Cylinder Diameter	Support Type	Item Number	List Price (USD)
CLR-703	Cast Aluminum	6 in × 18.25 in (152 mm × 464 mm)	8 in ; 9 (203 mm ; 229)	Floor Stand	30400018	528
CLR-704	Cast Aluminum	7.5 in × 18.5 in (191 mm × 470 mm)	6 in ; 9.25 (152 mm ; 235)	Floor Stand	30400019	623
CLR-711	Cast Aluminum	3.25 in × 6.25 in × 5.25 in (83 mm × 159 mm × 133 mm)	4 in ; 14 (102 mm ; 356)	Bench	30400020	101
CLR-711M	Cast Aluminum	3.25 in × 6.5 in × 5.25 in (83 mm × 165 mm × 133 mm)	4 in ; 14 (102 mm ; 356)	Bench	30400021	119
CLR-712	Cast Aluminum	3.25 in × 4.5 in × 6 in (83 mm × 152 mm × 152 mm)	4 in ; 14 (102 mm ; 356)	Bench	30400022	106
CLR-713	Cast Aluminum	3 in × 15.5 in (76 mm × 394 mm)	7 in ; 9.25 (178 mm ; 235)	Floor Stand	30400023	601
CLR-715	Cast Aluminum	1.88 in × 4.63 in × 8.1 in (48 mm × 118 mm × 206 mm)	4 in ; 14 (102 mm ; 356)	Wall	30400024	91
CLR-715M	Cast Aluminum	1.88 in × 4.63 in × 8.1 in (48 mm × 118 mm × 206 mm)	4 in ; 14 (102 mm ; 356)	Wall	30400025	109
CLR-716	Cast Aluminum	3.25 in × 6.5 in × 5.25 in (83 mm × 165 mm × 133 mm)	4 in ; 14 (102 mm ; 356)	Bench	30400026	109
CLR-716M	Cast Aluminum	3.25 in × 6.5 in × 5.25 in (83 mm × 165 mm × 165 mm)	4 in ; 14 (102 mm ; 356)	Bench	30400027	132
CLR-717	Cast Aluminum	1.88 in × 4.63 in × 8.1 in (48 mm × 118 mm × 206 mm)	4 in ; 14 (102 mm ; 356)	Wall	30400028	102
CLR-717M	Cast Aluminum	1.88 in × 4.63 in × 8.1 in (48 mm × 118 mm × 206 mm)	4 in ; 14 (102 mm ; 356)	Wall	30400029	125



Support Stand with Rod

Model	Material	Dimensions	Rod Length	Item Number	List Price (USD)
CLS-STRODS	Stainless Steel	7 in × 1 in × 13 in (178 mm × 25 mm × 330 mm)	22.76 in (578 mm)	30392232	288
CLS-STRODA	Aluminum	7 in × 1 in × 13 in (178 mm × 25 mm × 330 mm)	22.76 in (578 mm)	30392312	264
CLR-STRODC046	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	18 in (475 mm)	30392334	442
CLR-STRODC058	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	23 in (584 mm)	30392335	492
CLR-STRODC071	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	28 in (711 mm)	30392336	519
CLR-STRODC091	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	36 in (914 mm)	30392337	595
CLR-STRODC102	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	40 in (1,016 mm)	30392338	628
CLR-STRODC122	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	48 in (1,219 mm)	30392339	673
CLR-STRODC152	Stainless Steel	12 in × 16.5 in (305 mm × 419 mm)	60 in (1,524 mm)	30392340	746
CLR-STRODS058	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	23 in (58.4 cm)	30400030	458
CLR-STRODS071	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	28 in (71.1 cm)	30400031	477
CLR-STRODS091	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	36 in (91.4 cm)	30400032	551
CLR-STRODS102	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	40 in (101.6 cm)	30400033	584
CLR-STRODS122	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	48 in (121.9 cm)	30400034	611
CLR-STRODS152	Stainless Steel	10.5 in × 17.75 in (267 mm × 451 mm)	60 in (152.4 cm)	30400035	678



Holder

Model	Material	Dimensions	Grip Range	Connection Angle	Adjustment Type	Size	Item Number	List Price (USD)
CLC-CLMPHA	Aluminum	2.75 in (70 mm)	0 in ; 0.66 in (0 mm ; 17 mm)	Fixed 90°	Thumbscrew		30392195	33
CLC-JUMBOA	Aluminum	2.25 in (57.2 mm)	0 in ; 0.83 in (0 mm ; 21 mm)	Fixed 90°	Thumbscrew	Jumbo	30392196	51
CLC-REGLRZ	Nickel plated	1.9 in (48.3 mm)	0 in ; 0.71 in (0 mm ; 18 mm)	Fixed 90°	Thumbscrew	Regular	30392197	36
CLC-SWIVLZ	Nickel plated		0 in ; 0.75 in (0 mm ; 19 mm)	Variable	Thumbscrew		30392213	47
CLC-REGLRS	Stainless Steel	1.9 in (48.3 mm)	0 in ; 0.71 in (0 mm ; 18 mm)	Fixed 90°	Thumbscrew		30392219	84
CLC-SWIVLS	Stainless Steel		0 in ; 0.75 in (0 mm ; 19 mm)	Variable	Thumbscrew		30392228	133
CLC-ALLPSZ	Nickel plated		0 in ; 0.75 in (0 mm ; 19 mm)	Variable	Thumbscrew		30392248	93
CLC-JUMBOS	Stainless Steel	2.25 in (57.2 mm)	0 in ; 0.83 in (0 mm ; 21 mm)	Fixed 90°	Thumbscrew		30392357	84
CLR-HOLDRS	Stainless Steel			Fixed 90°	Oversized Knob		30400043	112
CLC-ULTRAA	Aluminum	4 in × 4 in (102 mm × 102 mm)	0.24 in ; 0.95 in (6 mm ; 24 mm)	Fixed 90°	Oversized Knob	Heavy Duty	30400045	145



Innoculating Turntable

Model	Material	Dimensions	Platform Size	Size	Item Number	List Price (USD)
CLN-INOTTS	Cast Iron	3 in × 4.49 in (76 mm × 114 mm)	4.49 in (114 mm)	Petri Dish size, 100 mm	30400046	243
CLN-INOTTL	Cast Iron	1.26 in × 5.91 in (32 mm × 150 mm)	5.91 in (150 mm)	Petri Dish size, 100 mm, 150 mm	30400047	288



Slide Staining Rack

Model	Material	Dimensions	Item Number	List Price (USD)
CLN-STNRK	Stainless Steel	23.7 in × 3.5 in (603 mm × 89 mm)	30400048	103

Laboratory Instruments



Streamline your water quality analysis applications using the intuitive OHAUS Starter and AquaSearcher™ Series. With the ability to handle applications from pH to Dissolved Oxygen—and everything in between—OHAUS provides powerful performance that goes where you go.



	Bench Meters								Portable Meters						Pen Meters						
	Starter 5000	AquaSearcher AB41	AquaSearcher AB33M1	AquaSearcher AB33PH	AquaSearcher AB33EC	AquaSearcher AB23PH	AquaSearcher AB23EC	Starter 2200	Starter 300	Starter 300C	Starter 300D	Starter ST400	Starter ST400M	Starter ST400D	pH meters	ORP meters	Conductivity meters	DO meters	Salinity meters	TDS meters	Multi meters
Measurement Range	-2,000 to 20,000 pH; -30°C to 130 °C	-2,000 – 20,000 pH; 2000.00 – +2000.00 mV; -10.0 °C – 125.0 °C	-2,000 – 20,000 pH; -2000.00 – +2000.00 mV; -5 °C – 110 °C	-2,000 – 16,000 pH; -2000.00 – +2000.00 mV; -5 °C – 110 °C	0.001 µS/cm – 1000 mS/cm; -5.0 to 110.0°C	0.00 – 14.00 pH; -1999 – 1999 mV; 0 – 100°C	0.00 µS/cm – 1999 mS/cm; 0.0 to 100.0 °C	-2,000 to 16,000 pH; 0 °C to 100 °C	0.00 to 14.00 pH 0 °C to 100 °C	0.0 µS/cm to 199.9 mS/cm 0 °C to 100 °C	0.0 to 199.9%; 200 to 400% 0 °C to 50 °C	-2,000–16,000 pH -1999–1999 mV -5 °C–110 °C	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Conductivity 0.0 µS/cm ... 199.9 mS/cm TDS 0.1 mg/L ... 199.9 g/l Salinity 0.0 ... 99.9 psu Resistivity 0 ... 20MΩ-cm Temperature -5 °C ... 110 °C	0.0 to 200.0% 0 °C to 50 °C	0.00 to 14.00 pH*	-1000mV to 1000mV	0.0 to 1999 µS/cm*	0.0 to 19.9 mg/L	0.0 to 80.0 ppt*	0 to 1000 mg/L*	0.00 to 1400 pH; 0-1999 µS/cm; 0-19.99 mS/cm; 0-1000 mg/L; 0.0-10.0 ppt
Input	BNC	BNC	BNC	BNC	Mini-Din	BNC	Mini-Din	BNC	BNC	Mini-Din	BNC	BNC	BNC	Mini-DIN							
Automatic Temp. Compensation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●*	●*	●*	●*	●*	●*	●
Manual Temp. Compensation	●	●	●	●	●	●	●	●	●		●	●	●								
Battery Power									●	●	●	●	●	●	●	●	●	●	●	●	●
1 Pt. Calibration	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●*	●*	●*	●*	●*	●*	●
2 Pt. Calibration	●	●	●	●	●	●	●	●	●		●	●	●	●	●*						
≥3 Pt. Calibration	●	●	●	●	●	●	●	●	●			●	●		●*						●
Memory	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
Backlit LCD	●	●	●	●	●	●	●	●	●		●	●	●	●							
LCD		●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●
Touchscreen	●	●	●	●	●																
Mechanical Keys						●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
USB	●	●	●	●	●							●	●								
RS232	●	●	●	●	●																
USB Host	●															●					
GLP / Time / Date	●	●	●	●	●				●												
Multi Languages	●	●	●	●	●							●	●								
IP Protection	IP54	IP54	IP54	IP54	IP54	IP54	IP54		IP54	IP54	IP54	IP67	IP67	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Stand-alone Electrode Holder	●	●	●	●	●	●	●														
Quick Reference Operation Guide	●	●	●	●	●	●	●	●													
In-Use Cover	●	●	●	●	●	●	●														
Hold Function								●	●	●	●	●	●	●	●*	●	●	●	●	●	●
Auto Shut Off		●	●	●	●	●	●					●	●		●	●	●	●	●	●	●
Page No.	253	247	249	248	250	251	252	254	259	260	261	255	256	258	262	262	262	262	262	262	262

* on specific models

	Bench Meters								Portable Meters						Pen Meters												
	ST5000	AB41PH	AB33M1	AB33PH	AB33EC	AB23PH	AB23EC	ST2200	ST400	ST400M	ST400D	ST300	ST300C	ST300D	ST10	ST20	ST20M-B	ST20M-C	ST10C	ST20C	ST10T	ST20T	ST10S	ST20S	ST10R	ST20R	ST20D
pH	●	●	●	●		●		●	●			●			●	●	●	●									
Cond.			●		●		●			●			●				●	●	●	●							
TDS			●		●		●			●			●				●				●	●					
ORP	●	●	●	●		●		●	●	●		●													●	●	
Salinity			●		●		●			●								●					●	●			
Resistivity			●		●					●																	
DO											●																●
Temp.	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●		●		●		●		●	●

AQUASEARCHER™ AB41PH BENCH METER

An Advanced, Research-Grade Benchtop pH Meter Offering Accurate, Repeatable Results

Display

6.5" Segment & Dot matrix LCD with backlight

Communication

RS232, USB Device (included), GLP/GMP data output with real-time clock

Construction

AC adapter (included)

Design Features

i-Steward, 3 endpoint modes, calibration due alarm, 1,000 measurement memory, ten most recent calibrations, password management

Operation

Capacitive touch, ABS top housing, standalone electrode holder



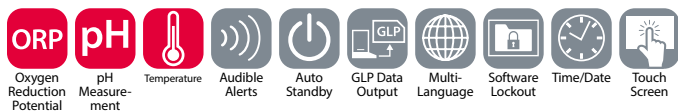
With selectable resolution from 0.1 to 0.001 and an intelligent i-Steward system, AB41PH is an excellent pH bench meter with high resolution and consistent accuracy.

Equipped with a 6.5-inch large LCD display and a touch keypad, AB41PH offers a simple and precise control experience.

The AB41PH features a 1000-item memory and password management for GLP documentation. Provides connectivity and data output capabilities with RS232 and USB interface.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
AB41PH-B	-	-2.000 – 20.000 pH; -10.0 °C – 125.0 °C; -2000.00 – +2000.00 mV	0.1 mV; 0.1 °C; 0.001 pH	30589830	1,209
AB41PH-F	ST410 pH Electrode and STTEMP Probe included	-2.000 – 20.000 pH; -10.0 °C – 125.0 °C; -2000.00 – +2000.00 mV	0.1 mV; 0.1 °C; 0.001 pH	30589831	1,371

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349	pH Electrode, STSURF, EN	30129470	227
ORP electrode STORP1	30038555	133	pH Electrode, ST270	30240974	411
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	pH electrode ST272	30393265	240
pH electrode protection solution(3M KCl)	30059256	39	pH Electrode ST410	30656037	249
pH sensor protect bottle(10 in bag)	30064800	67	ECS Special accessories	30658042	128
pH Electrode STMICRO5	30087566	354	Electrode holder AB33/AB41	30661423	128
pH Electrode STMICRO8	30087569	377	Stirrer Compact AS20	30661425	238
Buffer pH1.68 250ml	30100424	32	pH Electrode ST322	30681113	181
Buffer pH4.01 250ml	30100425	27	pH Electrode ST280	30681114	330
Buffer pH6.86 250ml	30100426	27	pH Electrode ST420	30681115	387
Buffer pH7.00 250ml	30100427	27	pH Electrode ST310	83033965	201
Buffer pH9.18 250ml	30100428	27	pH Electrode ST320	83033967	201
Buffer pH10.01 250ml	30100429	27	pH Electrode ST230	83033968	174
Buffer pH12.45 250ml	30100440	32	pH Electrode STPURE	83033969	192
pH Electrode, ST350, EN	30129354	248	Temperature Electrode STTEMP30	83033970	114
pH Electrode, ST260, EN	30129357	232	Buffer Powder pH4.01,7.00,10.01	83033971	34



AQUASEARCHER™ AB33PH BENCH METER

Highly Reliable and User-Friendly pH Benchtop Meter for Standard Laboratory Applications

Display

6.5" Segment & Dot matrix LCD with backlight

Communication

RS232, USB Device (included)

Construction

AC adapter (included)

Design Features

i-Steward, Calibration due alarm, 1,000 measurement memory

Operation

Capacitive touch, ABS top housing, standalone electrode holder



With multifunctional touch keypads, AB33PH makes measurement simple and fast within 3 steps. The intelligent i-Steward monitors the condition of electrodes, ensuring the accuracy of the results.

Auto endpoint mode and auto buffer recognition makes calibration easy. A 1000-item memory for pH measurements and calibration trail makes for efficient data documentation.

A user-friendly bench meter with an innovative design, including 6.5 in. large LCD display & adjustable stand-alone electrode holder. Multiple connectivity capabilities include RS232 & USB interface.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
AB33PH-B	-	-5 °C – 110 °C; -2.00 – 16.00 pH; -2000.00 – +2000.00 mV	0.1 °C; 0.01 pH; 1 mV	30589826	721
AB33PH-F	ST310 (Included)	-5 °C – 110 °C; -2.00 – 16.00 pH; -2000.00 – +2000.00 mV	0.1 °C; 0.01 pH; 1 mV	30589827	817

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349	pH Electrode, STSURF, EN	30129470	227
ORP electrode STORP1	30038555	133	pH Electrode, ST270	30240974	411
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	pH electrode ST272	30393265	240
pH electrode protection solution(3M KCl)	30059256	39	pH Electrode ST410	30656037	249
pH sensor protect bottle(10 in bag)	30064800	67	ECS Special accessories	30658042	128
pH Electrode STMICRO5	30087566	354	Electrode holder AB33/AB41	30661423	128
pH Electrode STMICRO8	30087569	377	Stirrer Compact AS20	30661425	238
Buffer pH1.68 250ml	30100424	32	pH Electrode ST322	30681113	181
Buffer pH4.01 250ml	30100425	27	pH Electrode ST280	30681114	330
Buffer pH6.86 250ml	30100426	27	pH Electrode ST420	30681115	387
Buffer pH7.00 250ml	30100427	27	pH Electrode ST310	83033965	201
Buffer pH9.18 250ml	30100428	27	pH Electrode ST320	83033967	201
Buffer pH10.01 250ml	30100429	27	pH Electrode ST230	83033968	174
Buffer pH12.45 250ml	30100440	32	pH Electrode STPURE	83033969	192
pH Electrode, ST350, EN	30129354	248	Temperature Electrode STTEMP30	83033970	114
pH Electrode, ST260, EN	30129357	232	Buffer Powder pH4.01,7.00,10.01	83033971	34



AQUASEARCHER™ AB33M1 BENCH METER

Easy-to-Use and Accurate Multi-Parameter Benchtop Meter

Display

6.5" Segment & Dot matrix LCD with backlight

Communication

RS232, USB Device (included)

Construction

AC adapter (included)

Design Features

i-Steward, Two Independent Channels, Calibration due alarm, 1,000 measurement memory

Operation

Capacitive touch, ABS top housing, standalone electrode holder



Capable of measuring up to 7 parameters including pH, ORP, conductivity, TDS, salinity, resistivity and temperature, the AB33M1 utilizes 2 independent measuring channels which can work simultaneously.

With multifunctional touch keypads, AB33M1 makes measurement simple and fast. The intelligent i-Steward monitors the condition of electrodes, ensuring the accuracy of the results.

A 1000-item memory for measurement and calibration allows for efficient data documentation. Records are kept with date/time for traceability. RS232 and USB enable connection to external devices.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
AB33M1-B	-	-2.00 – 20.00 pH; -5 °C – 110 °C; -2000.00 – +2000.00 mV	0.1 mV; 0.1 °C; 0.01 pH	30589824	1,026
AB33M1-F	ST310 (Included); STCON3 (Included)	-2.00 – 20.00 pH; -5 °C – 110 °C; -2000.00 – +2000.00 mV	0.1 mV; 0.1 °C; 0.01 pH	30589825	1,197

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349	pH Electrode, ST270	30240974	411
ORP electrode STORP1	30038555	133	pH electrode ST272	30393265	240
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	Conductivity Electrode STCON3 IP67	30468962	555
pH electrode protection solution(3M KCl)	30059256	39	pH Electrode ST410	30656037	249
pH sensor protect bottle(10 in bag)	30064800	67	ECS Special accessories	30658042	128
Cond Electrode STCON7	30080693	769	Electrode holder AB33/AB41	30661423	128
pH Electrode STMICRO5	30087566	354	Stirrer Compact AS20	30661425	238
pH Electrode STMICRO8	30087569	377	pH Electrode ST322	30681113	181
Buffer pH1.68 250ml	30100424	32	pH Electrode ST280	30681114	330
Buffer pH4.01 250ml	30100425	27	pH Electrode ST420	30681115	387
Buffer pH6.86 250ml	30100426	27	Conductivity Electrode STCON5	30681116	243
Buffer pH7.00 250ml	30100427	27	Conductivity Electrode STCON8	30681117	331
Buffer pH9.18 250ml	30100428	27	Cond Electrode STCON8 w Flow chamber	30681235	531
Buffer pH10.01 250ml	30100429	27	pH Electrode ST310	83033965	201
Buffer pH12.45 250ml	30100440	32	pH Electrode ST320	83033967	201
Standard Conduct 84µS/cm 250ml	30100442	32	pH Electrode ST230	83033968	174
Standard Conduct 1413µS/cm 250ml	30100443	32	pH Electrode STPURE	83033969	192
Standard Conduct 12.88mS/cm 250ml	30100444	32	Temperature Electrode STTEMP30	83033970	114
pH Electrode, ST350, EN	30129354	248	Buffer Powder pH4.01,7.00,10.01	83033971	34
pH Electrode, ST260, EN	30129357	232	Conductivity Electrode, STCON3	83033972	422
pH Electrode, STSURF, EN	30129470	227			



AQUASEARCHER™ AB33EC BENCH METER

Highly Reliable Conductivity/TDS/Salinity/Resistivity Benchtop Meter for Standard Laboratory Applications

Display

6.5" Segment & Dot matrix LCD with backlight

Communication

RS232, USB Device (included)

Construction

AC adapter (included)

Design Features

i-Steward, Calibration due alarm, 1,000 measurement memory

Operation

Capacitive touch, ABS top housing, standalone electrode holder



Selectable reading reference temperatures of 20 or 25 °C with linear curve options and automatic temperature compensation ensures accurate results.

Features such as auto-stop, auto temperature compensation, adjustable TDS factor, 2- or 4-cell conductivity probe compatibility make AB33EC well suited for universal laboratory applications.

A 1000-item memory for conductivity measurements and calibration trail allows for efficient data documentation. Standard RS232 and USB interface allows connection to external devices.

Model	Electrode	Measurement Range	Conductivity accuracy (±)	Item Number	List Price (USD)
AB33EC-B	-	0.001 µS/cm – 1000 mS/cm	0.5 %	30589828	659
AB33EC-F	STCON7(Included)	0.001 µS/cm – 1000 mS/cm	0.5 %	30589829	822

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Cond Electrode STCON7	30080693	769	Electrode holder AB33/AB41	30661423	128
Standard Conduct 84µS/cm 250ml	30100442	32	Stirrer Compact AS20	30661425	238
Standard Conduct 1413µS/cm 250ml	30100443	32	Conductivity Electrode STCON5	30681116	243
Standard Conduct 12.88mS/cm 250ml	30100444	32	Conductivity Electrode STCON8	30681117	331
Cond standard 500µS/cm, 250ml	30393269	33	Cond Electrode STCON8 w Flow chamber	30681235	531
ECS Special accessories	30658042	128	Conductivity Electrode, STCON3	83033972	422



AQUASEARCHER™ AB23PH BENCH METER

Simple to Use Benchtop Meter for Easily Measuring pH and ORP

Display

5 inch segment LCD with backlight

Construction

ABS housing, mechanical keys, Stand-Alone electrode holder

Design Features

Auto buffer recognition, two point calibration, electrode condition icon

Operation

AC adapter (included)



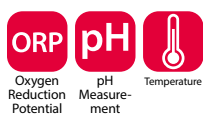
With an intuitive design and auto buffer recognition, AB23PH is an easy and straightforward meter for pH measurement.

Large bright LCD display with complete measurement information simplifies operation and allows you to monitor the results from a distance.

Featuring a compact stand-alone electrode holder, AB23PH increases the flexibility of experiments and fits ideally in any lab.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
AB23PH-B	-	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30589820	506
AB23PH-F	ST322 (Included)	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30589821	576

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349	pH Electrode, STSURF, EN	30129470	227
ORP electrode STORP1	30038555	133	pH Electrode, ST270	30240974	411
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	pH electrode ST272	30393265	240
pH electrode protection solution(3M KCl)	30059256	39	pH Electrode ST410	30656037	249
pH sensor protect bottle(10 in bag)	30064800	67	Electrode holder AB23	30661424	128
pH Electrode STMICRO5	30087566	354	Stirrer Compact AS20	30661425	238
pH Electrode STMICRO8	30087569	377	pH Electrode ST322	30681113	181
Buffer pH1.68 250ml	30100424	32	pH Electrode ST280	30681114	330
Buffer pH4.01 250ml	30100425	27	pH Electrode ST420	30681115	387
Buffer pH6.86 250ml	30100426	27	pH Electrode ST310	83033965	201
Buffer pH7.00 250ml	30100427	27	pH Electrode ST320	83033967	201
Buffer pH9.18 250ml	30100428	27	pH Electrode ST230	83033968	174
Buffer pH10.01 250ml	30100429	27	pH Electrode STPURE	83033969	192
Buffer pH12.45 250ml	30100440	32	Temperature Electrode STTEMP30	83033970	114
pH Electrode, ST350, EN	30129354	248	Buffer Powder pH4.01,7.00,10.01	83033971	34
pH Electrode, ST260, EN	30129357	232			



AQUASEARCHER™ AB23EC BENCH METER

Simple-to-Use Benchtop Meter Designed to Easily Measure Conductivity, TDS and Salinity

Display

5 inch segment LCD with backlight

Construction

ABS housing, mechanical keys, standalone electrode holder

Design Features

99 measurement memory, automatic and manual endpoint functions, automatic and manual temperature compensation

Operation

AC adapter (included)



With six instructional menu buttons and auto temperature compensation, the AB23EC is an easy and straightforward meter for measurement.

A large 5-inch backlit LCD display with complete measurement information simplifies operation and allows you to monitor the results from a distance.

Featuring a compact stand-alone electrode holder, the AB23EC increases the flexibility of the experiment and fits ideally in any lab.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
AB23EC-B	-	00.0 μ S/cm – 199.9 mS/cm	0.01 μ S/cm	30589822	533
AB23EC-F	STCON3 (Included)	00.0 μ S/cm – 199.9 mS/cm	0.01 μ S/cm	30589823	683

Accessories			Accessories		
	Item Number	List Price (USD)		Item Number	List Price (USD)
Cond Electrode STCON7	30080693	769	Stirrer Compact AS20	30661425	238
Standard Conduct 84 μ S/cm 250ml	30100442	32	Conductivity Electrode STCON5	30681116	243
Standard Conduct 1413 μ S/cm 250ml	30100443	32	Conductivity Electrode STCON8	30681117	331
Standard Conduct 12.88mS/cm 250ml	30100444	32	Cond Electrode STCON8 w Flow chamber	30681235	531
Electrode holder AB23	30661424	128	Conductivity Electrode, STCON3	83033972	422



STARTER 5000 PH BENCH

High Performance Benchtop pH Meter Ideal for Accurate Everyday Measurements in the Laboratory

Display

Backlit liquid crystal display (LCD), touchscreen

Communication

RS232 and USB (included). GLP/GMP data output with real-time clock.

Construction

ABS housing, standalone electrode holder, replaceable in-use cover

Design Features

3 endpoint modes, continuous measurement mode, up to 9 point calibration, 1,000 measurement memory

Operation

AC adapter (included)



A 1000-item library allows for easy recall from data storage. Flexible pH analysis from 10 sensors for calibration storage, 1 self-defined and 8 pre-defined buffer groups, 3 endpoint modes & GLP mode.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large touch-screen, backlit LCD display.

Featuring a USB port, IP54 housing and in-use cover, this flexible and smooth-operating bench meter is built to last.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST5000-B	-	-2.00 – 20.00 pH; -30 – 130°C; -2000.00 – +2000.00 mV	0.1 °C; 0.001 pH; 0.01 mV	30129895	1,798
ST5000-F	ST350 (Included)	-2.00 – 20.00 pH; -30 – 130°C; -2000.00 – +2000.00 mV	0.1 °C; 0.001 pH; 0.01 mV	30129896	1,902

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349	pH Electrode, ST350, EN	30129354	248
ORP electrode STORP1	30038555	133	pH Electrode, ST260, EN	30129357	232
Holder, Stand Alone, Electrode	30058733	127	pH Electrode, STSURF, EN	30129470	227
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	In-Use-Cover, ST5000	30129897	40
pH electrode protection solution(3M KCl)	30059256	39	pH Electrode, ST270	30240974	411
Adapter Cable 9 Pin-9 Pin PC-SF40A	30059316	59	Cable, 4m, BNC, STATER electrodes	30282603	125
Printer, Impact, SF40A, AM	30064203	1,409	pH electrode ST272	30393265	240
pH sensor protect bottle(10 in bag)	30064800	67	pH Electrode ST410	30656037	249
pH Electrode STMICRO5	30087566	354	pH Electrode ST322	30681113	181
pH Electrode STMICRO8	30087569	377	pH Electrode ST280	30681114	330
Buffer pH1.68 250ml	30100424	32	pH Electrode ST420	30681115	387
Buffer pH4.01 250ml	30100425	27	pH Electrode ST310	83033965	201
Buffer pH6.86 250ml	30100426	27	pH Electrode ST320	83033967	201
Buffer pH7.00 250ml	30100427	27	pH Electrode ST230	83033968	174
Buffer pH9.18 250ml	30100428	27	pH Electrode STPURE	83033969	192
Buffer pH10.01 250ml	30100429	27	Temperature Electrode STTEMP30	83033970	114
Buffer pH12.45 250ml	30100440	32	Buffer Powder pH4.01,7.00,10.01	83033971	34



STARTER™ 2200 PH BENCH METER

Affordable Benchtop pH Meter for Basic Laboratory Applications

Display

3.5 inch segment LCD with backlight

Construction

ABS housing, mechanical keys, built-in electrode holder

Design Features

Auto buffer recognition, two point calibration, electrode condition icon

Operation

AC adapter (included)



ST2200 is a user-friendly bench meter that clearly displays critical information - with five distinctly marked keys which allow users to operate the instrument with minimal training.

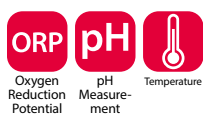
Auto buffer recognition and auto-endpoint mode make calibration and measurement simple and ideal for routine pH measurement.

The built-in electrode holder provides straightforward and convenient all-in-one operation, while the attached quick guide clearly explains the operating steps.

Model	Electrode	Measurement Range	Measurement Resolution	Temperature compensation	Item Number	List Price (USD)
ST2200-B	ST320 (Included)	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	Yes	30656033	413
ST2200-F	ST320 (Included)	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	Yes	30655944	468

Accessories	Item Number	List Price (USD)
ORP electrode STORP2	30038553	349
ORP electrode STORP1	30038555	133
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49
pH electrode protection solution(3M KCl)	30059256	39
pH sensor protect bottle(10 in bag)	30064800	67
pH Electrode STMICRO5	30087566	354
pH Electrode STMICRO8	30087569	377
Buffer pH1.68 250ml	30100424	32
Buffer pH4.01 250ml	30100425	27
Buffer pH6.86 250ml	30100426	27
Buffer pH7.00 250ml	30100427	27
Buffer pH9.18 250ml	30100428	27
Buffer pH10.01 250ml	30100429	27
Buffer pH12.45 250ml	30100440	32
pH Electrode, ST350, EN	30129354	248
pH Electrode, ST260, EN	30129357	232

Accessories	Item Number	List Price (USD)
pH Electrode, STSURF, EN	30129470	227
pH Electrode, ST270	30240974	411
pH electrode ST272	30393265	240
pH Electrode ST410	30656037	249
Electrode holder AB23	30661424	128
Stirrer Compact AS20	30661425	238
pH Electrode ST322	30681113	181
pH Electrode ST280	30681114	330
pH Electrode ST420	30681115	387
pH Electrode ST310	83033965	201
pH Electrode ST320	83033967	201
pH Electrode ST230	83033968	174
pH Electrode STPURE	83033969	192
Temperature Electrode STTEMP30	83033970	114
Buffer Powder pH4.01,7.00,10.01	83033971	34



STARTER 400 PH PORTABLE

Durable, Waterproof Battery-Operated pH Meters Ideal for Field Testing!

Display

Backlit Liquid Crystal Display (LCD)

Communication

Built-in micro-USB port

Construction

IP67 waterproof housing, IP67 probes, rubber cover

Design Features

Data storage of up to 1000 items

Operation

Rechargeable lithium battery



Built with IP67 waterproof housing as well as a rubber cover and IP67 probes, the ST400 is ideal for prolonged use in any field environment.

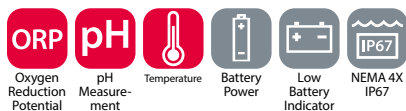
Rechargeable lithium battery provides 40 hours of uninterrupted use and more than 300 charge cycles - eliminating the need to change out batteries often.

The ST400 features intuitive software which guides the user through operation. All necessary information to run tests successfully such as electrode condition is displayed clearly on the large LCD.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST400-B	-	-5 °C – 110 °C; -2.00 – 16.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30468964	659
ST400-F	ST320 IP67 3m (Included)	-5 °C – 110 °C; -2.00 – 16.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30468965	768
ST400-G	ST320 IP67 3m (Included)	-5 °C – 110 °C; -2.00 – 16.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30468966	805

Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87
ORP electrode STORP2	30038553	349
ORP electrode STORP1	30038555	133
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49
pH electrode protection solution(3M KCl)	30059256	39
pH sensor protect bottle(10 in bag)	30064800	67
pH Electrode STMICRO5	30087566	354
pH Electrode STMICRO8	30087569	377
Buffer pH1.68 250ml	30100424	32
Buffer pH4.01 250ml	30100425	27
Buffer pH6.86 250ml	30100426	27
Buffer pH7.00 250ml	30100427	27
Buffer pH9.18 250ml	30100428	27
Buffer pH10.01 250ml	30100429	27
Buffer pH12.45 250ml	30100440	32
pH Electrode, ST350, EN	30129354	248

Accessories	Item Number	List Price (USD)
pH Electrode, ST260, EN	30129357	232
pH Electrode, STSURF, EN	30129470	227
pH Electrode, ST270	30240974	411
pH electrode ST272	30393265	240
pH Electrode ST320 IP67 3m	30468960	255
pH Electrode ST410	30656037	249
pH Electrode ST322	30681113	181
pH Electrode ST280	30681114	330
pH Electrode ST420	30681115	387
pH Electrode ST310	83033965	201
pH Electrode ST320	83033967	201
pH Electrode ST230	83033968	174
pH Electrode STPURE	83033969	192
Temperature Electrode STTEMP30	83033970	114
Buffer Powder pH4.01,7.00,10.01	83033971	34



STARTER 400M PH & CONDUCTIVITY PORTABLE

Durable, Waterproof Battery-Operated Multi-Parameter Meters Ideal for Field Testing!

Display

Backlit Liquid Crystal Display (LCD)

Communication

Built-in micro-USB port

Construction

IP67 waterproof housing, IP67 probes, rubber cover

Design Features

Data storage of up to 1000 items

Operation

Rechargeable lithium battery



Built with IP67 waterproof housing as well as a rubber cover and IP67 probes, the ST400 is ideal for prolonged use in any field environment.

Rechargeable lithium battery provides 40 hours of uninterrupted use and more than 300 charge cycles - eliminating the need to change out batteries often.

The ST400M features intuitive software which guides the user through operation. All necessary information to run tests successfully such as electrode condition is displayed clearly on the large LCD.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST400M-B	-	0-20 MΩ·cm; -5 °C – 110 °C; -2.00 – 16.00 pH; 00.0 μS/cm – 199.9 mS/cm; 0.1 mg/L – 199.9 g/L (TDS); -1999 – 1999 mV; 0-99.9 psu	0.01 mg/L; 0.01 psu; 0.1 °C; 0.1 μS/cm; 0.01 pH; 0.01 Ω·cm; 1 mV	30468990	1,014
ST400M-F	ST320 IP67 3m (Included); STCON3 IP67 3m (Included)	0-20 MΩ·cm; -5 °C – 110 °C; -2.00 – 16.00 pH; 00.0 μS/cm – 199.9 mS/cm; 0.1 mg/L – 199.9 g/L (TDS); -1999 – 1999 mV; 0-99.9 psu	0.01 mg/L; 0.01 psu; 0.1 °C; 0.1 μS/cm; 0.01 pH; 0.01 Ω·cm; 1 mV	30468991	1,264
ST400M-G	ST320 IP67 3m (Included); STCON3 IP67 3m (Included)	0-20 MΩ·cm; -5 °C – 110 °C; -2.00 – 16.00 pH; 00.0 μS/cm – 199.9 mS/cm; 0.1 mg/L – 199.9 g/L (TDS); -1999 – 1999 mV; 0-99.9 psu	0.01 mg/L; 0.01 psu; 0.1 °C; 0.1 μS/cm; 0.01 pH; 0.01 Ω·cm; 1 mV	30468992	1,293

Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87
ORP electrode STORP2	30038553	349
ORP electrode STORP1	30038555	133
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49
pH electrode protection solution(3M KCl)	30059256	39
pH sensor protect bottle(10 in bag)	30064800	67
Cond Electrode STCON7	30080693	769
pH Electrode STMICRO5	30087566	354
pH Electrode STMICRO8	30087569	377
Buffer pH1.68 250ml	30100424	32
Buffer pH4.01 250ml	30100425	27
Buffer pH6.86 250ml	30100426	27
Buffer pH7.00 250ml	30100427	27
Buffer pH9.18 250ml	30100428	27
Buffer pH10.01 250ml	30100429	27
Buffer pH12.45 250ml	30100440	32
Standard Conduct 84μS/cm 250ml	30100442	32

Accessories	Item Number	List Price (USD)
Standard Conduct 1413μS/cm 250ml	30100443	32
Standard Conduct 12.88mS/cm 250ml	30100444	32
pH Electrode, ST350, EN	30129354	248
pH Electrode, ST260, EN	30129357	232
pH Electrode, STSURF, EN	30129470	227
pH Electrode, ST270	30240974	411
pH electrode ST272	30393265	240
Cond standard 500μS/cm, 250ml	30393269	33
pH Electrode ST320 IP67 3m	30468960	255
Conductivity Electrode STCON3 IP67	30468962	555
pH Electrode ST410	30656037	249
pH Electrode ST322	30681113	181
pH Electrode ST280	30681114	330
pH Electrode ST420	30681115	387
Conductivity Electrode STCON5	30681116	243
Conductivity Electrode STCON8	30681117	331
Cond Electrode STCON8 w Flow chamber	30681235	531

Accessories continued on next page



STARTER 400M PH & CONDUCTIVITY PORTABLE ACCESSORIES

Accessories	Item Number	List Price (USD)
pH Electrode ST310	83033965	201
pH Electrode ST320	83033967	201
pH Electrode ST230	83033968	174
pH Electrode STPURE	83033969	192

Accessories	Item Number	List Price (USD)
Temperature Electrode STTEMP30	83033970	114
Buffer Powder pH4.01,7.00,10.01	83033971	34
Conductivity Electrode, STCON3	83033972	422

STARTER 400D DO PORTABLE

High-Performance, Low-Maintenance Dissolved Oxygen (DO) Meter with Optical Technology for Accurate Measurements

Display

Backlit Color Liquid Crystal Display (LCD)

Construction

ABS Housing

Design Features

99 measurement memory, last calibration data recall, auto barometric pressure measurement, auto temperature compensation with manual salinity compensation

Operation

4 AAA batteries (included)



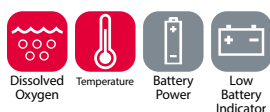
Optical DO probe requires minimal maintenance and offers immediate measurement readings. No warm up or sample preparation needed.

Large backlit LCD screen provides easy to read results - even in low light environments. Ideal for secure field use with a meter stand, wrist strap and durable IP54 housing.

The 99-measurement library stores data for future reference and allows for easy one-touch recall of the last calibration data.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST400D-B	-	0.00 – 20.0 mg/L(ppm); 0 – 50°C	0.01 mg/L; 0.1%; 0.1 °C	30378541	804
ST400D	STDO21 (Included)	0.00 – 20.0 mg/L(ppm); 0 – 50°C	0.01 mg/L; 0.1%; 0.1 °C	30378543	1,885
ST400D-G	STDO21 (Included)	0.00 – 20.0 mg/L(ppm); 0 – 50°C	0.01 mg/L; 0.1%; 0.1 °C	30378542	1,930

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87	DO Electrode, STDO21, 1m Cable	30378544	1,552
Zero Oxygen Chemicals, STARTER	30059257	33	DO Electrode, STDO21, 5m Cable	30378545	1,600
DO Probe Cap, STDO21	30253566	269	Temperature Electrode STTEMP30	83033970	114



STARTER 300 PH PORTABLE

Convenient Portable pH Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

Automatic and manual temperature compensation, auto buffer recognition, calibration icon

Operation

4 AAA batteries (included)



Auto buffer recognition with four different buffer groups makes it easy to avoid errors during the calibration process.

Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results. Ideal for secure field use with a meter stand, wrist strap and durable IP54 housing.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST300-B	-	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	83033962	436
ST300	ST322 (Included)	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	83033961	583
ST300-G	ST322 (Included)	0 – 100°C; 0.00 – 14.00 pH; -1999 – 1999 mV	0.1 °C; 0.01 pH; 1 mV	30219114	610

Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87
ORP electrode STORP2	30038553	349
ORP electrode STORP1	30038555	133
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49
pH electrode protection solution(3M KCl)	30059256	39
pH sensor protect bottle(10 in bag)	30064800	67
pH Electrode STMICRO5	30087566	354
pH Electrode STMICRO8	30087569	377
Buffer pH1.68 250ml	30100424	32
Buffer pH4.01 250ml	30100425	27
Buffer pH6.86 250ml	30100426	27
Buffer pH7.00 250ml	30100427	27
Buffer pH9.18 250ml	30100428	27
Buffer pH10.01 250ml	30100429	27
Buffer pH12.45 250ml	30100440	32
pH Electrode, ST350, EN	30129354	248

Accessories	Item Number	List Price (USD)
pH Electrode, ST260, EN	30129357	232
pH Electrode, STSURF, EN	30129470	227
pH Electrode, ST270	30240974	411
Cable, 4m, BNC, STARTER electrodes	30282603	125
pH electrode ST272	30393265	240
pH Electrode ST410	30656037	249
pH Electrode ST322	30681113	181
pH Electrode ST280	30681114	330
pH Electrode ST420	30681115	387
Seal kit, STARTER portables	83032962	68
pH Electrode ST310	83033965	201
pH Electrode ST320	83033967	201
pH Electrode ST230	83033968	174
pH Electrode STPURE	83033969	192
Temperature Electrode STTEMP30	83033970	114
Buffer Powder pH4.01,7.00,10.01	83033971	34



STARTER 300C CONDUCTIVITY PORTABLE

Convenient Portable Conductivity Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

Automatic temperature compensation, adjustable temperature coefficient

Operation

4 AAA batteries (included)



Four-pole linear electrode with temperature sensor safeguards the unit from polarization and pollution effects to ensure accurate readings.

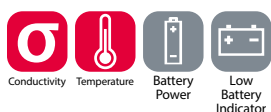
Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST300C-B	-	00.0 μ S/cm – 199.9 mS/cm; 0 – 100°C; 0.1 mg/L – 199.9 g/L (TDS)	0.1 °C; 0.01 μ S/cm; 0.1 mg/L	30092000	536
ST300C	STCON3 (Included)	00.0 μ S/cm – 199.9 mS/cm; 0 – 100°C; 0.1 mg/L – 199.9 g/L (TDS)	0.1 °C; 0.01 μ S/cm; 0.1 mg/L	83033964	672
ST300C-G	STCON3 (Included)	00.0 μ S/cm – 199.9 mS/cm; 0 – 100°C; 0.1 mg/L – 199.9 g/L (TDS)	0.1 °C; 0.01 μ S/cm; 0.1 mg/L	30219115	716

Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87
Cond Electrode STCON7	30080693	769
Standard Conduct 84 μ S/cm 250ml	30100442	32
Standard Conduct 1413 μ S/cm 250ml	30100443	32
Standard Conduct 12.88mS/cm 250ml	30100444	32

Accessories	Item Number	List Price (USD)
Conductivity Electrode STCON5	30681116	243
Conductivity Electrode STCON8	30681117	331
Cond Electrode STCON8 w Flow chamber	30681235	531
Seal kit, STARTER portables	83032962	68
Conductivity Electrode, STCON3	83033972	422



STARTER 300D DO PORTABLE

Convenient Portable Dissolved Oxygen (DO) Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

30 measurement memory

Operation

4 AAA batteries (included)



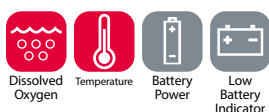
The galvanic electrode can be used immediately after being powered on without the typical wait time associated with dissolved oxygen meters.

Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Electrode	Measurement Range	Measurement Resolution	Item Number	List Price (USD)
ST300D-B	-	20.0 – 45.0 mg/L; 0.00 – 19.99; 200 – 400%; 0 – 50°C	0.1%; 1%; 1 mg/L; 0.1 °C; 0.1 ppm; 1 ppm; 0.1 mg/L	30031656	517
ST300D	STTEMP30 (Included); STDO11 (Included)	20.0 – 45.0 mg/L; 0.00 – 19.99; 200 – 400%; 0 – 50°C	0.1%; 1%; 1 mg/L; 0.1 °C; 0.1 ppm; 1 ppm; 0.1 mg/L	30031655	921
ST300D-G	STTEMP30 (Included); STDO11 (Included)	20.0 – 45.0 mg/L; 0.00 – 19.99; 200 – 400%; 0 – 50°C	0.1%; 1%; 1 mg/L; 0.1 °C; 0.1 ppm; 1 ppm; 0.1 mg/L	30219116	982

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
Portable Bag STARTER	30031635	87	Seal kit, STARTER portables	83032962	68
DO Electrode, STDO11	30031639	509	Temperature Electrode STTEMP30	83033970	114
Zero Oxygen Chemicals, STARTER	30059257	33			



STARTER PEN METERS

Compact Design for Fast, Convenient Electrochemistry Measurement
At Your Fingertips

Display

Liquid crystal display (LCD) display with secondary information line (on select models)

Construction

ABS Housing

Design Features

Easily replaceable electrodes, automatic shut off feature

Operation

4 1.5V batteries (included)



Small, economical pen meters offer simple, fast, and straightforward operation.

With durable IP67 waterproof ABS housing, protective sensor cap, and an automatic shutdown feature that preserves battery life, OHAUS pen meters can endure consistent use in rough, wet environments.

Equipped with a wrist strap to prevent accidental drop and damage.

Model	Meter Type	Measurement Range	Measurement Resolution	Temperature Display	Item Number	List Price (USD)
ST10	pH	0.00 – 14 pH	0.1 pH	Not Applicable	30073970	80
ST20	pH	0.0 – 99.0 °C; 0.00 – 14 pH	0.01 pH	Yes	30073971	137
ST20M-B	TDS; Conductivity; pH	0.0 – 1000 mg/L; 0.0 – 99.0 °C; 0.00 – 14 pH; 0 – 1999 µs/cm	1 µs/cm; 0.01 pH	Yes	30393199	175
ST20M-C	Conductivity; pH; Salinity	0.0 – 10.0 ppt; 0.0 – 99.0 °C; 0.00 – 14 pH; 0.00 – 19.99 ms/cm	0.1 °C; 0.1 ppt; 0.01 pH; 0.01 ms/cm	Yes	30393200	175
ST10C-A	Conductivity	0.00 – 199.9 µs/cm	0.1 µs/cm	Not Applicable	30073972	105
ST10C-B	Conductivity	0 – 1999 µs/cm	1 µs/cm	Not Applicable	30073973	105
ST10C-C	Conductivity	0.00 – 19.99 ms/cm	10 µs/cm	Not Applicable	30073974	105
ST20C-A	Conductivity	0.00 – 199.9 µs/cm; 0.0 – 99.0 °C	0.1 µs/cm	Yes	30073975	154
ST20C-B	Conductivity	0.0 – 99.0 °C; 0 – 1999 µs/cm	1 µs/cm	Yes	30073976	154
ST20C-C	Conductivity	0.0 – 99.0 °C; 0.00 – 19.99 ms/cm	10 µs/cm	Yes	30073977	154
ST10T-A	TDS	0.0 – 100.0 mg/L	0.1 mg/L	Not Applicable	30073978	119
ST10T-B	TDS	0.0 – 1000 mg/L	1 mg/L	Not Applicable	30073979	119
ST20T-A	TDS	0.0 – 100.0 mg/L; 0.0 – 99.0 °C	0.1 mg/L	Yes	30073980	154
ST20T-B	TDS	0.0 – 1000 mg/L; 0.0 – 99.0 °C	1 mg/L	Yes	30073981	154
ST10S	Salinity	0.0 – 10.0 ppt	0.1 ppt	Not Applicable	30073982	105
ST20S	Salinity	0.0 – 80.0 ppt; 0.0 – 99.0 °C	0.1 ppt	Yes	30073983	154
ST10R	ORP	-1000 – 1000 mV	1 mV	Not Applicable	30073984	172
ST20R	ORP	-1000 – 1000 mV; 0.0 – 99.0 °C	1 mV	Yes	30073985	230
ST20D	Dissolved Oxygen	0.0 – 19.9 mg/L	0.1 mg/L	Yes	30073986	534

Accessories on next page



STARTER PEN METERS ACCESSORIES

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
pH electrode protection solution(3M KCl)	30059256	39	Buffer pH4.01 250ml	30100425	27
Pen Electrode, ST10	30087992	56	Buffer pH7.00 250ml	30100427	27
Pen Electrode, ST20	30087993	99	Buffer pH10.01 250ml	30100429	27
Pen Electrode, ST10C-A ST10T-A	30087994	81	Standard Conduct 84µS/cm 250ml	30100442	32
Pen Electrode, ST10C-B ST10T-B	30087995	81	Standard Conduct 1413µS/cm 250ml	30100443	32
Pen Electrode, ST10C-C ST10S	30087996	81	Standard Conduct 12.88mS/cm 250ml	30100444	32
Pen Electrode, ST20C-A ST20T-A	30087997	81	Pen Electrode, ST20D	30222083	331
Pen Electrode, ST20C-B ST20T-B	30087998	81	Membrane Kit Replaceable, ST20D	30222084	150
Pen Electrode, ST20C-C ST20S	30087999	81	Pen Electrode, ST20M-B	30393203	88
Pen Electrode, ST10R	30088020	119	Pen Electrode, ST20M-C	30393204	88
Pen Electrode, ST20R	30088021	154			

STARTER ELECTRODES

OHAUS Precision Powers the Starter Electrodes

Construction

Metal, glass, or plastic shaft

Design Features

Suitable for Various Applications



All sturdy and durable electrodes are constructed of either plastic or glass shafts and built to withstand daily use.

Most electrodes include a temperature sensor, which powers automatic temperature compensation and ensures accurate measurements.

All electrodes fit perfectly in the electrode holders on OHAUS bench meters and electrode clips on all OHAUS portable meters.

Model	Electrode Type	Shaft Material	Item Number	List Price (USD)
ST210	pH	Plastic	83033966	93
ST230	pH	Glass	83033968	174
ST260	pH	Glass	30129357	232
ST270	pH	Glass	30240974	411
ST272	pH	Plastic	30393265	240
ST280	pH	Glass	30681114	330
ST310	pH	Plastic	83033965	201
ST320	pH	Plastic	83033967	201
ST320 IP67 3m	pH	Plastic	30468960	255
ST322	pH	Plastic	30681113	181
ST350	pH	Glass	30129354	248
ST410	pH	Glass	30656037	249
ST420	pH	Glass	30681115	387
STMICRO5	pH	Glass	30087566	354
STMICRO8	pH	Glass	30087569	377
STPURE	pH	Glass	83033969	192
STCON3	Conductivity	Plastic	83033972	422
STCON3 IP67 3m	Conductivity	Plastic	30468962	555
STCON5	Conductivity	Glass	30681116	243
STCON7	Conductivity	Plastic	30080693	769
STCON8	Conductivity	Glass	30681117	331
STCON8C	Conductivity	Glass	30681235	531
STDO11	DO	Plastic	30031639	509
STDO21-1	DO	Plastic	30378544	1,552
STDO21-5	DO	Plastic	30378545	1,600

Continued on next page



STARTER ELECTRODES

Model	Electrode Type	Shaft Material	Item Number	List Price (USD)
STORP1	ORP	Plastic	30038555	133
STORP2	ORP	Glass	30038553	349
STSURF	pH	Plastic	30129470	227
STTEMP30	Temperature	Stainless Steel	83033970	114
STREF1	Reference	Glass	30059253	206

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	49	Buffer pH10.01 250ml	30100429	27
pH electrode protection solution(3M KCl)	30059256	39	Buffer pH12.45 250ml	30100440	32
Zero Oxygen Chemicals, STARTER	30059257	33	Standard Conduct 84µS/cm 250ml	30100442	32
pH sensor protect bottle(10 in bag)	30064800	67	Standard Conduct 1413µS/cm 250ml	30100443	32
Buffer pH1.68 250ml	30100424	32	Standard Conduct 12.88mS/cm 250ml	30100444	32
Buffer pH4.01 250ml	30100425	27	DO Probe Cap, STDO21	30253566	269
Buffer pH6.86 250ml	30100426	27	Cable, 4m, BNC, STARTER electrodes	30282603	125
Buffer pH7.00 250ml	30100427	27	Cond standard 500µS/cm, 250ml	30393269	33
Buffer pH9.18 250ml	30100428	27	Buffer Powder pH4.01,7.00,10.01	83033971	34

AQUASEARCHER™ AP50MM PHOTOMETER PORTABLE

Multi-function portable Photometer is designed intuitively to provide fast, reliable colorimetric and turbidity measurements.

Display

Backlit Graphical LCD, 160 × 240 pixels

Construction

ABS housing

Design Features

Auto-off, light-touch keyboard and rugged single-handed design for field applications.

Operation

4 AA (LR6) Batteries (Included)



Instrument only-B models



Field Kit
-F models

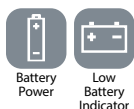
Fast and reliable tests—equipped with a real-time dynamic display for each measurement, to provide fast, reliable results. It can record up to 30,000 datapoints with time and date stamp.

Intuitive operation—built-in calibration curves provide automatic selection of appropriate wavelengths from the long-lasting LED light source. Store commonly used tests for efficient field use.

User-Friendly—large, backlit display makes it easier to read real-time results. Comes with a hard-shell carrying case with all accessories needed to perform tests in the field (-F version).

Model	Measurement Range	Accuracy	Resolution	Item Number	List Price (USD)
a-AP50MM-F	0 – 200 NTU; 0 – 1.0 Abs	± 0.1 nm; ± 0.005 Abs @1.0 Abs Nominal	0.1	30853393	1,947
a-AP50MM-B	0 – 200 NTU; 0 – 1.0 Abs	± 0.1 nm; ± 0.005 Abs @1.0 Abs Nominal	0.1	30853394	1,730

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
COD Adapter a-AP50MM	30853488	196	Briefcase AQUASEARCHER	30744416	216
Cleaning brush pk/5	30727772	13	24 mm replacement vials, 10mL, pk/6	30853486	119
Cloth pk/4	30727773	13	24 mm replacement vials, 25mL, pk/6	30853487	151
Cylinder 5mL pk/2	30727776	13			



AQUASEARCHER™ AP30TUR TURBIDITY PORTABLE

*Easy Turbidity Measurement for a Range of Applications
from Drinking Water to Wastewater*

Display

Graphic OLED

Construction

ABS housing

Design Features

5,000 measurement memory, IP65 Rating, Auto-off and light-touch keyboard

Operation

4 AAA batteries (included)



Meter only-B version



Field Kit
-F version

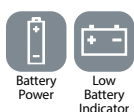
Combines the nephelometric method and transmitted method and compliant with ISO 7027 standard and EPA method 180.1.

Equipped with dual optic paths and detectors with NIR light sources that eliminate color interferences and stray light to ensure great accuracy.

Water-resistant, has a long battery life and can store up to 5000 measurements. Users can easily transfer data to a PC with USB connection without requiring additional software.

Model	Measurement Range	Accuracy	Resolution	Item Number	List Price (USD)
AP30TURL-F	0 – 200 NTU	$\leq \pm 0.2$, (0 – 5); $\pm 5\%$, (5 – 200)	0.01 (0 – 9.99); 0.1 (10 – 99.9); 1 (100 – 200)	30853395	1,222
AP30TURL-B	0 – 200 NTU	$\leq \pm 0.2$, (0 – 5); $\pm 5\%$, (5 – 200)	0.01 (0 – 9.99); 0.1 (10 – 99.9); 1 (100 – 200)	30853397	973
AP30TURH-F	0 – 1000 NTU	$\leq \pm 0.3$, (0 – 10); $\pm 8\%$, (10 – 1000)	0.01 (0 – 9.99); 0.1 (10 – 99.9); 1 (100 – 1000)	30853396	1,157
AP30TURH-B	0 – 1000 NTU	$\leq \pm 0.3$, (0 – 10); $\pm 8\%$, (10 – 1000)	0.01 (0 – 9.99); 0.1 (10 – 99.9); 1 (100 – 1000)	30853478	930

Accessories	Item Number	List Price (USD)	Accessories	Item Number	List Price (USD)
24 mm replacement vials, 10mL, pk/6	30853486	119	Cloth pk/4	30727773	13
24 mm replacement vials, 25mL, pk/6	30853487	151	Micro USB cable pk/2 a-AP30	30727775	19
Replacement vials 5 pack a-AP30 25mm	30727771	43	Cylinder 5mL pk/2	30727776	13
Cleaning brush pk/5	30727772	13	Turbidity Standard	30853479	302



NOTES

OHAUS Resources

STANDARD TERMS AND CONDITIONS OF SALE AND SERVICE

Payment terms are net 30 days from date of shipment or as per mutual agreement, EXW 2010 Incoterms or FCA Worthington, Ohio USA depending on destination. • A service charge of 1.5% will be applied on invoice amounts that are not paid within 30 days. • All orders are for immediate release. • No order cancellations within 48 hours of acknowledged ship date. • Prices, terms & specifications are subject to change without prior notice. • Drop shipments are not available outside of the United States.

WARRANTY POLICY

OHAUS Corporation's products are warranted against defects in materials & workmanship from date of delivery through duration of the warranty period listed below. • During the warranty period, OHAUS Corporation (OHAUS) will at its sole discretion, decide whether to repair or replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to an authorized service facility. • Products must be deemed to have a manufacturer defect by OHAUS Technical Support or an OHAUS authorized service facility in order for warranty repair or replacement to be authorized or approved. • If the defect is found within 30 days of delivery, the product will be considered an out of box failure and is subject to a return and replacement. Any time after 30 days from delivery and within the warranty period, the product will be referred to an OHAUS authorized service facility to be repaired at no cost if determined eligible based on terms of warranty. • The warranty period for OHAUS products shall begin at the date of shipment to the end-user, or 3 months from the date of shipment to the dealer by OHAUS, whichever occurs first. • This warranty does not apply where the OHAUS products have been subject to: accident, alteration, misuse, abuse, damage by accident or otherwise, exposed to radioactive or corrosive materials, has foreign material penetrating the inside of the product, failure on the part of the dealer or end-user to ensure proper storage, operation and/or maintenance, installation or servicing or modification by other than OHAUS or authorized service facility, or the addition or supply of products or parts not approved for incorporation into OHAUS' products or software or interfacing. • This warranty only covers products shipped within the United States and Canada by OHAUS to the dealer, or to the end-user within the United States. • No other expressed or implied warranty is given by OHAUS. • IN NO EVENT WILL OHAUS BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY TYPE OF SPECIAL, CONSEQUENTIAL, INDIRECT, INCIDENTAL, EXEMPLARY, OR PUNITIVE DAMAGES, REGARDLESS OF WHETHER THE CONTRACT WOULD FAIL OF ITS ESSENTIAL PURPOSE. Such damages include but are not limited to loss of profits or revenue, damage to reputation, loss of customers, or claims of Buyer's customers or contractors for such damages. In no event will OHAUS' aggregate liability for any and all types of damages or losses related to the equipment, software, or services sold, licensed, or delivered pursuant hereto exceed the cost of the item giving rise to the claim, whether based in contract, warranty, indemnity, or tort (including negligence). And any suit arising hereunder must be commenced within one year from the date on which the cause of action accrues.

6 Month Warranty			3 Year Warranty
AquaSearcher and Starter Series Electrodes			Harvard Junior® Balances
1 Year Warranty			TJ611 Balance
Accessories	Frontier Mini Centrifuge	Courier Scales	5 Year Warranty
CX and CR Scales	Defender® Scales and Bases	DFD Drum, DF Floor Scales & Bases	All Other Mechanical Balances
Indicators, all models	Spring Scales		10 Year Warranty
JE Emerald & JR Ruby Scales	MB23 & MB32	AquaSearcher and Starter Series Meters	Triple Beam Pro® Balances
Navigator® Scales	Primer® Balance		
PS Scales	Ranger® Scales	TAJ Scales	
Valor® Scales	Weights and Weight Sets	Y Series Scales	
2 Year Warranty			
Adventurer® Balances	Homogenizers	Pioneer® Balances	
Dry Block Heaters	Incubating & Incubating Cooling Shakers	PR Series Balances	
Explorer® Balances	Labjaws Clamps and Supports	Scout® STX , SPX & SJX Balances	
Frontier Micro & Multi Centrifuges	MB62 & MB92 & MB120	Specialty Stirrers	
Guardian™ Hotplates & Stirrers	Open Air Shakers	Vortex Mixers	
Heavy Duty Incubating/Cooling Shakers	Achiever™ Overhead Stirrers		

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RETURN POLICY

OHAUS Customer Service must be contacted for a Return Authorization Number (RAN) within 30 days of shipment to the dealer from OHAUS to be eligible for return credit. • OHAUS products returned for convenience or goodwill (not for product or part failure or warranty issues) will be subject to a 20% restocking fee, minimum \$100. • OHAUS products may only be returned if they are in new and unused condition, packed in original packaging and container, and include all manuals, peripherals and accessories. Used products will not be accepted and not eligible for credit. • OHAUS products will be inspected once they are returned and a credit will not be issued if the product does not have a RAN, completed decontamination form, original packaging and original parts, or is used or damaged. • Returns must be sent to and received by our Ohio facility (AM Hub, 1150 Dearborn Drive, Worthington OH 43085) as specified in the Return Order Confirmation, or as specified otherwise by OHAUS, to be eligible for return credit. • Authorized returns not received by OHAUS within 90 days will be cancelled.

OHAUS MINIMUM ADVERTISED PRICE (MAP) POLICY

Section 1. Purpose and Applicability:

- OHAUS Corporation ("OHAUS") has adopted this Minimum Advertised Price (MAP) policy to protect the reputation of its brand name, better serve our customers, and to properly position the OHAUS brand in the marketplace. OHAUS products which are subject to this MAP policy are defined in the Appendix.
- This Policy has been unilaterally adopted and will be enforced strictly and uniformly.
- The minimum advertised prices (MAPs) effective December 1, 2021 are set forth in the schedule below, exclusive of all state and local taxes.

Section 2. Geographic Scope and Modification:

- OHAUS has unilaterally established this Minimum Advertised Price ("MAP") Policy and it is applicable to its United States and Canadian based resellers. It may be modified at any time by OHAUS, and the minimum advertised price may be affected by promotional periods designated by OHAUS.
- No dealer's consent or agreement to this Policy is sought and no such consent or agreement will be accepted by OHAUS. OHAUS is providing this Policy to dealers strictly as notice.

Section 3. Minimum Advertised Pricing Rules and Violations:

- Resellers shall not post OHAUS products for sale in any online or other marketplace if such a posting will result in the advertisement, by the Reseller or by the marketplace, of prices below the MAPs set by OHAUS.
- Resellers are free to establish their own resale prices; however, they should not advertise OHAUS products below the minimum advertised prices (MAP) set by OHAUS.
- Advertising includes any form of providing information about pricing that is not associated with the act of purchasing or negotiating the purchase of a product. Examples of advertising include, but are not limited to, signage, catalogs, displays, mailings, flyers, internet advertisements, internet price lists, and internet "click here" links or pop-ups and similar web-based techniques. For purposes of this policy, advertising does not include responses to email inquiries, verbal communications, or prices displayed in internet "shopping carts" or "baskets."
- It is a violation of this MAP policy for any reseller to state or suggest in advertising or on a web site that a price lower than the MAP for an OHAUS product may be available during an online checkout or purchase process, including but not limited to the following: "click here for lower price," "add to cart for discounted price," "price too low to advertise," or a line through the price which indicates a lower price is available. If the customer moves a product to the online shopping cart and establishes the intent to purchase, then those further negotiations are outside this MAP Policy.
- It is not a violation of this MAP Policy to advertise that a customer may "call for price" or "email for price," "Request a Quote", specifically with respect to MAP Products, so long as no price is listed below MAP level.
- OHAUS will monitor the resale market to ensure dealers are in compliance with the MAPs set by OHAUS.
- This Policy does not apply to refurbished or discontinued OHAUS products.

Section 4. Penalties and Administration:

- Upon verification that a dealer has advertised any of OHAUS Corporation's products at a price less than the minimum advertised price established and announced by OHAUS Corporation, OHAUS will, without assuming any liability, take unilateral action including but not limited to: (1) sending warning letters to notify dealers of violations; (2) revoking buying privileges for products in violation of this policy for 30 days, 90 days and up to one year based on number of warnings (3) and indefinitely refusing to accept any new orders from any reseller. OHAUS may take any of these actions in any order.
- If a reseller with multiple websites or store locations violates this MAP Policy at any one website or store location, OHAUS will consider this to be a violation by the reseller.
- OHAUS has established an internal MAP manager. All communication regarding MAP Policy should be directed to ohausbrandprotection@ohaus.com and not to any other representative of OHAUS. The Manager is responsible for monitoring pricing and for MAP enforcement. OHAUS will not respond to any communication reporting a violation of this policy.
- In addition to other methods, OHAUS may use a third party to monitor pricing on the internet. Any third party who monitors OHAUS pricing has no authority to make any decisions about enforcement or application of this Policy or any other OHAUS business

Appendix

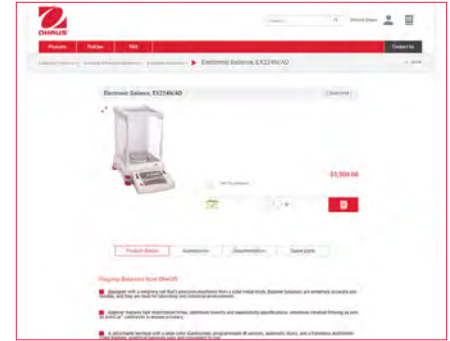
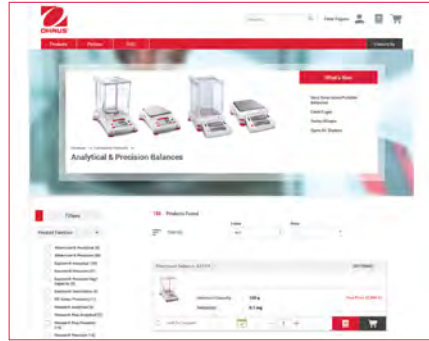
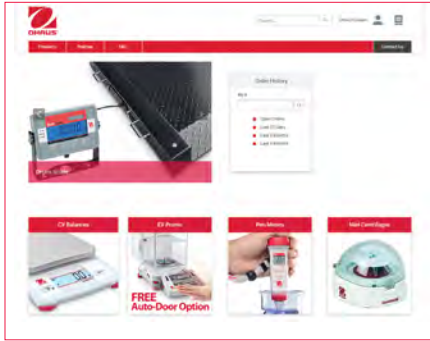
- The minimum advertised prices (MAPs) effective December 1, 2021 are set forth below, exclusive of all state and local taxes.

Product Series	MAP Price % off List Price
Valor® 7000	15%
Ranger® 7000	20%
Defender® 6000	10%
Defender® 5000 (D52 Models)	10%
Drum Scales (DFD models)	30%
Explorer®	15%
Adventurer®	15%
Pioneer™	15%
PR Series	15%
Moisture Analyzers (MB Series)	15%
Scout® (SKX Series Only)	30%

Download the complete MAP Product Listing

www.OHAUS.com/MAP-Policy

DEALER RESOURCES



OHAUS Partner Shop

The OHAUS Partner Shop is purposefully aimed at delivering a better shopping experience. We've added some great new features, making it easier to use and quicker to navigate. With advanced search capabilities, a convenient comparison function, and an order template designed to help you anticipate and quickly execute all of your ordering needs, the OHAUS Partner Shop was designed with you and your customers in mind.

Why Use OHAUS Partner Shop?

- Online Ordering
- View Product Availability and Pricing
- View Order Status
- Track Shipments
- View Invoices

Contact your OHAUS representative today to experience our Partner Shop!

Contact Us

Ordering

We welcome your orders however you choose to place them!

- Email your order to sales@ohaus.com or
- Order online through the [OHAUS Partner Shop](#)

Dealer Support

We are here to support your sales! Our Customer Service Team is happy to help with any of your questions.

- Email your inquiries to cs@ohaus.com or
- Call us at **1-800-672-7722** and press 1 to reach a Customer Service Representative

Technical Support

Need troubleshooting or have questions on how to operate your OHAUS equipment?

Contact one of our Technical Support Specialists to assist you with your technical needs.

- Visit www.ohaus.com/Support/Frequently-Asked-Questions/Technical-FAQ for frequently asked questions, or
- Visit www.ohaus.com/Support/Contact-Us/Technical-Inquiry to submit your question, or
- Email your question to TechSupport@OHAUS.com, or
- Call us at **1-800-672-7722** and press 3 to reach a Technical Support Agent

DEALER SUPPORT

Dealer Zone

OHAUS.com's Dealer Zone is your one-stop resource center for marketing, sales, and service support designed to help you grow your business. Featuring a comprehensive collection of e-launch kits, product information and photos, service and support assistance, promotions, events, and much more, the OHAUS Dealer Zone is a fully-loaded, constantly updated website that allows access to every kind of marketing support. From customizable marketing email templates to product pricing and specifications, the OHAUS Dealer Zone takes the guesswork out of your sales and marketing experience, and gives you the tools you need to keep your own OHAUS materials as up-to-date and effective as possible.

Why Use OHAUS Dealer Zone?

Update your website and catalog with simple access to

- Product photos in a variety of formats (jpg, tif, 360° spins)
- Web banners for products and promotions
- Product videos for both overview tutorials as well as popular applications
- The OHAUS Magic Spreadsheet for in-depth product specifications

Downloadable content for marketing assistance, such as

- Promotional flyers
- Customizable email templates to send your customers
- Product-related infographics for a wide range of industries and applications
- Up-to-date OHAUS catalogs and brochures

One-click access to essential documents, including

- Service and instruction manuals
- Up-to-date documents and software for OHAUS products
- Service and support FAQ
- Comprehensive adapter lists and cable guides for OHAUS products

OHAUS Service Training Seminars

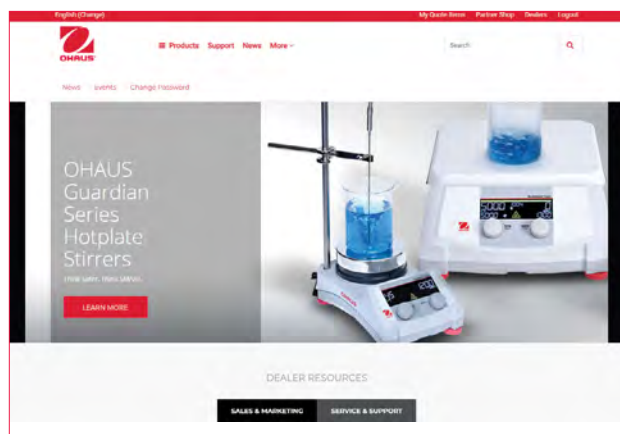
OHAUS offers service training to our authorized servicing dealers that covers a mix of troubleshooting, load cell repair/replacement, solutions to common service issues, customized topics and access to available service resources. The emphasis is placed on the practical side of equipment repair. As our weighing and non-weighing portfolio continues to expand, this is also a refresher for those who have attended past sessions or latest training for any new service personnel.

Please contact us at TechService@ohaus.com to find out more about these service training opportunities.

OHAUS Webinar Series

The OHAUS Webinar Series features a variety of brief webinars designed to cover a broad range of products and topics. Courses are added continuously, and offer real-time expertise with OHAUS professionals across a variety of features, industries, and applications.

If you are interested in finding out more about our Webinar Series, please contact your regional OHAUS representative.



Applications



Weighing



Check-weighing



Conductivity



Density Determination



Differential Weighing



Display Hold



Dissolved Oxygen



Dynamic Weighing



Filling



Formulation



Resistivity



Gross/Net/Tare



Ingredient Costing



Moisture Analysis



Oxygen Reduction Potential



pH Measurement



Parts Counting



Total/Accumulation



Specific Gravity



SQC



Statistics



Percent Weighing



Temperature



Truck Weighing



Peak Hold



Percent Moisture Regain



Percent Moisture



Percent Solid



Pipette Calibration



Salinity



Total Dissolved Solids



Batch Printing

Features



Audible Alerts



Auto Shut-Off



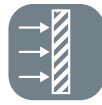
Auto Standby



Backlight



Battery Power



Environmental Filters



External Analog Base Input



GLP Data Output



GMP/GLP



Hinged Cover



Security Bracket



Software Lockout



Stability Indicator



Stackable



Time/Date



Touch Screen



Touchless Sensors



Weigh Below Hook



NEMA 4X IP65



NEMA 4X IP66



NEMA 4X IP67



Shipping Lock



Overload Protection



Internal Calibration



IPX8



LED Check-weighing Indicator



Level Indicator



Leveling Feet



Low Battery Indicator



Multi-Language



Overload/Underload Indicators



Rechargeable Battery

Approvals



Measurement Canada Approved



NSF Listed



NTEP Certified



USDA-AMS Accepted



TUV Certified



CE Certified



Laboratory
Weighing



Laboratory
Equipment



Laboratory
Instruments



Industrial
Weighing



Portable
Balances



Calibration
Weights

From sophisticated, semi-micro balances all the way to large capacity industrial floor scales, the OHAUS portfolio has weighing solutions to fit every workplace, as well as a wide variety of essential laboratory equipment including centrifuges, clamps and supports, and more, as well as OIML and ASTM certified weights and weight sets. Whether your applications include sample preparation, advanced formulation, or bulk packaging and checkweighing, OHAUS does it all!

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ISO 9001:2015
Registered Quality
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